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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
 NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates
 NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency
 NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
 NEWS 6 Mar 08 Gene Names now available in BIOSIS
 NEWS 7 Mar 22 TOXLIT no longer available
 NEWS 8 Mar 22 TRCTHERMO no longer available
 NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAPLUS and USPTFULL
 NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY
 NEWS 11 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
 NEWS 12 Apr 08 "Ask CAS" for self-help around the clock
 NEWS 13 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
 NEWS 14 Apr 09 ZDB will be removed from STN
 NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
 NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
 NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER
 NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available
 NEWS 19 Jun 03 New e-mail delivery for search results now available
 NEWS 20 Jun 10 MEDLINE Reload
 NEWS 21 Jun 10 PCTFULL has been reloaded

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
 CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
 AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002

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 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:51:42 ON 28 JUN 2002

=> fil

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'HOME' ENTERED AT 08:52:34 ON 28 JUN 2002

=> fil reg

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.63

FILE 'REGISTRY' ENTERED AT 08:52:41 ON 28 JUN 2002

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STRUCTURE FILE UPDATES: 26 JUN 2002 HIGHEST RN 434281-39-7

DICTIONARY FILE UPDATES: 26 JUN 2002 HIGHEST RN 434281-39-7

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

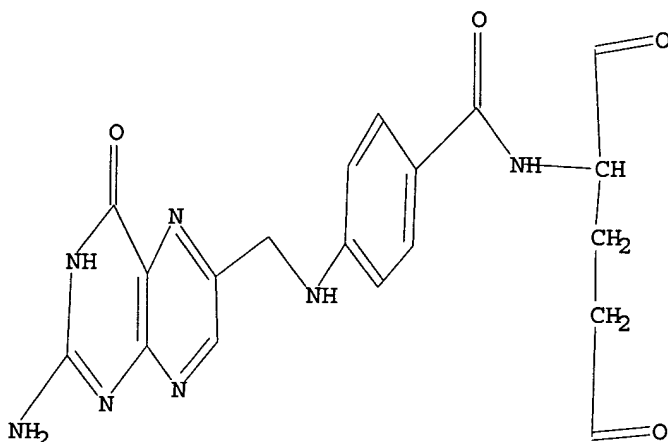
Uploading 752867 (claim16a).str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 08:53:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS
SEARCH TIME: 00.00.01

13 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 200 TO 800
PROJECTED ANSWERS: 44 TO 476

L2 13 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 08:53:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 672 TO ITERATE

100.0% PROCESSED 672 ITERATIONS
SEARCH TIME: 00.00.01

337 ANSWERS

L3 337 SEA SSS FUL L1

=>

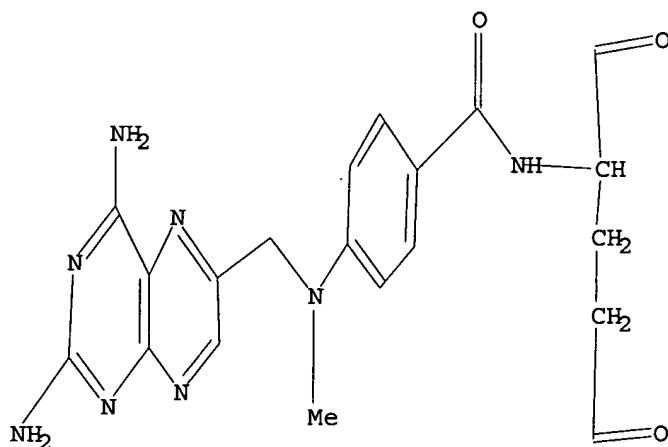
Uploading 752867 (claim 16b).str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l4

SAMPLE SEARCH INITIATED 08:55:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS
SEARCH TIME: 00.00.01

30 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 498 TO 1302
PROJECTED ANSWERS: 272 TO 928

L5 30 SEA SSS SAM L4

=> s l4 full

FULL SEARCH INITIATED 08:55:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1107 TO ITERATE

100.0% PROCESSED 1107 ITERATIONS
SEARCH TIME: 00.00.01

710 ANSWERS

L6 710 SEA SSS FUL L4

=>

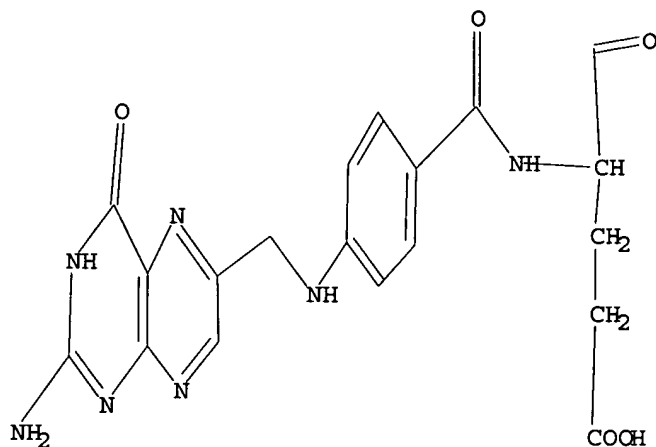
Uploading 752867 (claim 36a).str

L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l7

SAMPLE SEARCH INITIATED 08:56:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS
SEARCH TIME: 00.00.01

11 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 200 TO 800
PROJECTED ANSWERS: 22 TO 418

L8 11 SEA SSS SAM L7

=> s l7 full

FULL SEARCH INITIATED 08:56:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 672 TO ITERATE

100.0% PROCESSED 672 ITERATIONS
SEARCH TIME: 00.00.01

188 ANSWERS

L9 188 SEA SSS FUL L7

=>

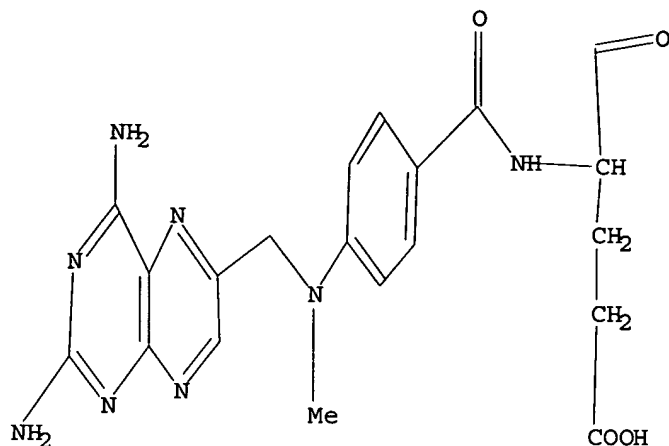
Uploading 752867 (claim 36b).str

L10 STRUCTURE UPLOADED

=> d

L10 HAS NO ANSWERS

L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l10

SAMPLE SEARCH INITIATED 08:57:14 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 498 TO 1302

PROJECTED ANSWERS: 9 TO 360

L11 9 SEA SSS SAM L10

=> s l10 full

FULL SEARCH INITIATED 08:57:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1107 TO ITERATE

100.0% PROCESSED 1107 ITERATIONS

301 ANSWERS

SEARCH TIME: 00.00.01

L12 301 SEA SSS FUL L10

=>

Uploading 752867 (claim 36c).str

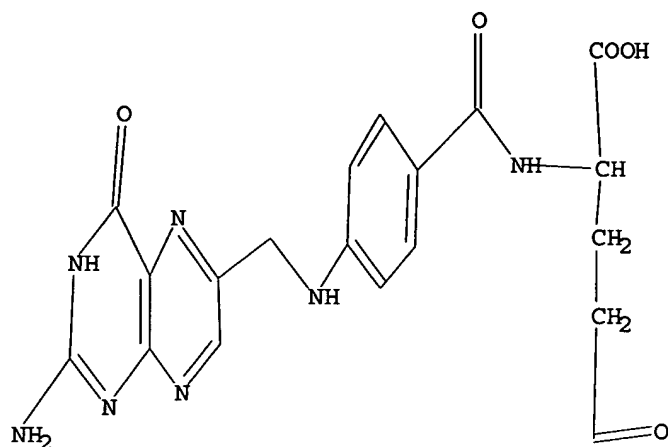
L13 STRUCTURE UPLOADED

=> d

L13 HAS NO ANSWERS

L13

STR



Structure attributes must be viewed using STN Express query preparation.

=> s l13

SAMPLE SEARCH INITIATED 08:58:05 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS
 SEARCH TIME: 00.00.01

12 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 200 TO 800
 PROJECTED ANSWERS: 33 TO 447

L14 12 SEA SSS SAM L13

=> s l13 full

FULL SEARCH INITIATED 08:58:10 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 672 TO ITERATE

100.0% PROCESSED 672 ITERATIONS
 SEARCH TIME: 00.00.01

270 ANSWERS

L15 270 SEA SSS FUL L13

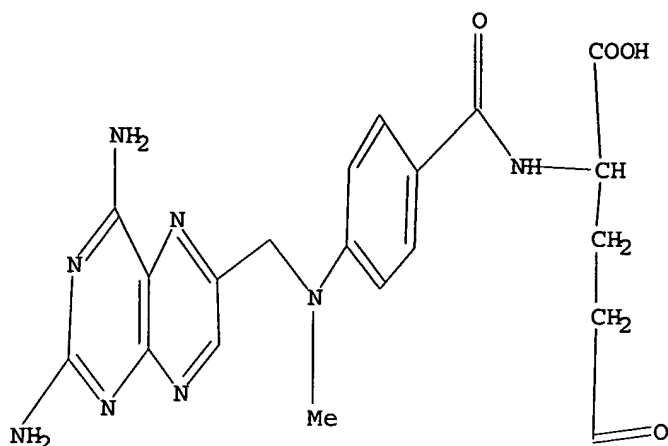
=>

Uploading 752867 (claim 36d).str

L16 STRUCTURE UPLOADED

=> d

L16 HAS NO ANSWERS
 L16 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l16

SAMPLE SEARCH INITIATED 08:59:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS
SEARCH TIME: 00.00.01

15 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 498 TO 1302
PROJECTED ANSWERS: 68 TO 532

L17 15 SEA SSS SAM L16

=> s l16 full

FULL SEARCH INITIATED 08:59:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1107 TO ITERATE

100.0% PROCESSED 1107 ITERATIONS
SEARCH TIME: 00.00.01

335 ANSWERS

L18 335 SEA SSS FUL L16

=> fil .search

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
843.96	844.59

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 08:59:46 ON 28 JUN 2002

FILE 'CAPLUS' ENTERED AT 08:59:46 ON 28 JUN 2002

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FILE 'BIOSIS' ENTERED AT 08:59:46 ON 28 JUN 2002

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FILE 'USPATFULL' ENTERED AT 08:59:46 ON 28 JUN 2002

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FILE 'EMBASE' ENTERED AT 08:59:46 ON 28 JUN 2002
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=> d his

(FILE 'HOME' ENTERED AT 08:51:42 ON 28 JUN 2002)

FILE 'HOME' ENTERED AT 08:52:34 ON 28 JUN 2002

FILE 'REGISTRY' ENTERED AT 08:52:41 ON 28 JUN 2002

L1	STRUCTURE UPLOADED
L2	13 S L1
L3	337 S L1 FULL
L4	STRUCTURE UPLOADED
L5	30 S L4
L6	710 S L4 FULL
L7	STRUCTURE UPLOADED
L8	11 S L7
L9	188 S L7 FULL
L10	STRUCTURE UPLOADED
L11	9 S L10
L12	301 S L10 FULL
L13	STRUCTURE UPLOADED
L14	12 S L13
L15	270 S L13 FULL
L16	STRUCTURE UPLOADED
L17	15 S L16
L18	335 S L16 FULL

FILE 'MEDLINE, CAPLUS, BIOSIS, USPATFULL, EMBASE' ENTERED AT 08:59:46 ON
28 JUN 2002

=> s l3 or l6 or l9 or l12 or l15 or l18

4 FILES SEARCHED...

L19 148184 L3 OR L6 OR L9 OR L12 OR L15 OR L18

=> s l19 and (ligand? or chelat?)

L20 2030 L19 AND (LIGAND? OR CHELAT?)

=> s l20 and (metal or metals)

L21 261 L20 AND (METAL OR METALS)

=> s l21 and (folate?)

L22 72 L21 AND (FOLATE?)

=> dup rem l21

PROCESSING COMPLETED FOR L21

L23 245 DUP REM L21 (16 DUPLICATES REMOVED)

=> dup rem l22

PROCESSING COMPLETED FOR L22

L24 71 DUP REM L22 (1 DUPLICATE REMOVED)

=> d ibib ab hitstr 1-

YOU HAVE REQUESTED DATA FROM 71 ANSWERS - CONTINUE? Y/(N):y

L24 ANSWER 1 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:99503 USPATFULL
 TITLE: Compositions and methods for treating or preventing diseases of body passageways
 INVENTOR(S): Hunter, William L., Vancouver, CANADA
 Machan, Lindsay S., Vancouver, CANADA

NUMBER	KIND	DATE
US 2002052404	A1	20020502
US 2001-933652	A1	20010820 (9)

Continuation of Ser. No. US 1996-653207, filed on 24 May 1996, UNKNOWN

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092

NUMBER OF CLAIMS: 14
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 94 Drawing Page(s)
 LINE COUNT: 4786

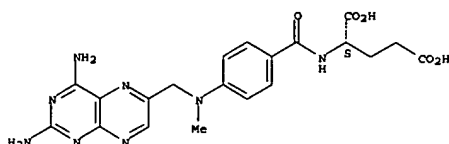
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for treating or preventing diseases associated with body passageways, comprising the step of delivering to an external portion of the body passageway a therapeutic agent. Representative examples of therapeutic agents include anti-angiogenic factors, anti-proliferative agents, anti-inflammatory agents, and antibiotics.

IT 59-05-2, Methotrexate
 (compos. for treating or preventing diseases of body passageways)

RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 2 OF 71 USPATFULL (Continued)

L24 ANSWER 2 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:99090 USPATFULL
 TITLE: Method for the detection of an analyte by means of a nucleic acid reporter
 INVENTOR(S): Bess, Luis, West Chester, PA, UNITED STATES
 Ebersole, Richard C., Newark, DE, UNITED STATES
 Hendrickson, Edwin R., Hockessin, DE, UNITED STATES
 Neelkantan, Neel, Newark, DE, UNITED STATES
 Perry, Michael P., Downingtown, PA, UNITED STATES

NUMBER	KIND	DATE
US 2002051986	A1	20020502
US 2001-858994	A1	20010516 (9)

PATENT INFORMATION: US 2000-211293P 20000613 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: E I DU PONT DE NEMOURS AND COMPANY, LEGAL DEPARTMENT - PATENTS, 1007 MARKET STREET, WILMINGTON, DE, 19898

NUMBER OF CLAIMS: 25
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 9 Drawing Page(s)
 LINE COUNT: 2070

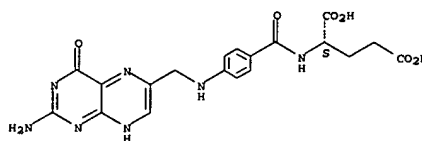
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process is disclosed for the detection of an analyte utilizing a nucleic acid label as a reporter. The analyte is detected by the binding of at least two reporter conjugates, each conjugate comprising a member of a binding pair and a nucleic acid label. The binding of the reporter conjugates to the analyte facilitates the juxtaposition of the nucleic acid labels, forming a single nucleic acid amplicon. The amplicon may then be detected directly, or may be used as a template of the generation of amplification products. Detection of the analyte by this process significantly reduces assay background caused by non-specific reporter conjugate binding.

IT 59-30-3, Folic acid, uses
 (method for detection of analyte by means of a nucleic acid reporter)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 3 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:60709 USPATFULL
 TITLE: Nutritional composition
 INVENTOR(S): Kirschner, Mitchell J., St. Louis, MO, UNITED STATES
 Levison, R. Saul, Chesterfield, MO, UNITED STATES
 Paradissis, George N., St. Louis, MO, UNITED STATES
 PATENT ASSIGNEE(S): DRUGTECH CORPORATION,

NUMBER	KIND	DATE
US 2002034543	A1	20020321
US 2001-949710	A1	20010912 (9)

Continuation of Ser. No. US 1999-451849, filed on 1 Dec 1999, PENDING

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: Gary M. Nath, NATH & ASSOCIATES PLLC, 6th Floor, 1030 15th Street, Washington, DC, 20005

NUMBER OF CLAIMS: 120
 EXEMPLARY CLAIM: 1
 LINE COUNT: 1540

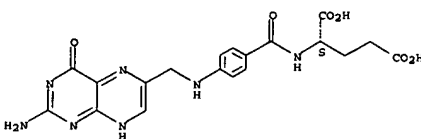
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present inventive subject matter is directed to novel chewable prenatal nutritional supplements which contain vitamin C, as well as novel methods for providing optimal vitamin C supplementation to pregnant women. The present invention is also directed to novel compositions and methods for providing nutritional supplementation to individuals planning to conceive a child.

IT 59-30-3, Folic acid, biological studies
 (nutritional compn. comprising vitamin C)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 4 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:37336 USPATFULL
 TITLE: Transdermal delivery system
 INVENTOR(S): Dransfield, Charles William, Lake Cathie, AUSTRALIA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002022052	A1	20020221
APPLICATION INFO.:	US 2001-863764	A1	20010524 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	AU 2000-8885	20000721
	AU 2000-6691	20000406

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: Paul F. McQuade, GREENBERG TRAURIG, 12th FLOOR, 1750 TYSONS BLVD., MCLEAN, VA, 22102

NUMBER OF CLAIMS: 32
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 3 Drawing Page(s)
 LINE COUNT: 1341

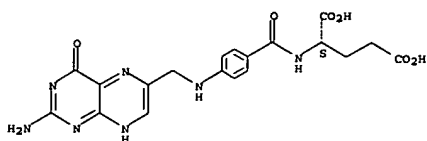
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A transdermal or transepithelial composition and a method for making a transdermal or transepithelial composition substantially free of water comprising a biologically active agent in the form of microfined particles, sized less than 2 microns down to less than 0.1 microns, which by massage pressure are mechanically entrained within the interstices of the stratum corneum. Particles less than 0.5 microns do not require a carrier for entrainment. Delivery into mucosal epithelia is obtained by particles less than one micron with delivery increasing with decreasing particle size.

IT 59-30-3, Folic acid, biological studies
 (water-free transdermal and transepithelial drug delivery systems)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 5 OF 71 USPATFULL (Continued)

L24 ANSWER 5 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:27445 USPATFULL
 TITLE: Flavopiridol drug combinations and methods with reduced side effects

INVENTOR(S): Ratain, Mark J., Chicago, IL, UNITED STATES
 Innocenti, Federico, Chicago, IL, UNITED STATES
 Iyer, Lalitha, Chicago, IL, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002016293	A1	20020207
APPLICATION INFO.:	US 2001-835082	A1	20010412 (9)
RELATED APPL. INFO.:	Continuation-in-part of Ser. No. US 2000-553829, filed on 21 Apr 2000, PENDING		

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: Gina N. Shishima, Pulbright & Jaworski L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX, 78701

NUMBER OF CLAIMS: 99
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 7 Drawing Page(s)
 LINE COUNT: 5370

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides methods, formulations and kits to reduce the toxicity of flavopiridol and analogs thereof. Disclosed are therapeutics

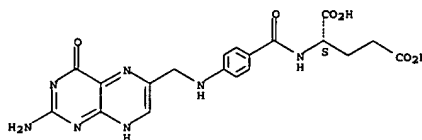
and treatment methods employing such drugs in combination with agents that increase conjugative enzyme activity or glucuronosyltransferase activity, and agents that decrease biliary transport protein activity, such as cyclosporine A, the resultant effects of which are to decrease the significant side effects previously associated with treatment using these drugs. The invention also characterizes specific isoforms of glucuronosyltransferase enzymes involved in glucuronidation of flavopiridols and their analogs.

IT 59-30-3D, reduced
 (flavopiridol drug combinations with glucuronosyltransferase activity enhancer and methods with reduced side effects by enhancing its

metab.)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 6 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:8204 USPATFULL
 TITLE: In vivo screen using chemical inducers of dimerization
 INVENTOR(S): Cornish, Virginia W., New York, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002004202	A1	20020110
APPLICATION INFO.:	US 2001-768479	A1	20010124 (9)
RELATED APPL. INFO.:	Continuation-in-part of Ser. No. US 2000-490320, filed on 24 Jan 2000, PENDING		

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: John P. White, Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY, 10036

NUMBER OF CLAIMS: 140
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 23 Drawing Page(s)
 LINE COUNT: 2080

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The subject invention provides a compound having the formula:

H1--X--B--Y--H2

wherein each of H1 and H2 may be the same or different and capable of binding to a receptor which is the same or different; wherein each of X and Y may be present or absent and if present, each may be the same or different spacer moiety; and wherein B is an enzyme cleavable moiety. This invention also provides a method of screening proteins for the ability to catalyze bond cleavage, comprising the steps of:

a) providing a cell that expresses a pair of fusion proteins which upon dimerization change a cellular readout;

b) providing the compound of the invention which dimerizes the pair of fusion proteins, said compound comprising two portions coupled by a bond that is cleavable by the protein to be screened; and

c) screening for the cellular readout, wherein a change the cellular readout indicates catalysis of bond cleavage by the protein to be screened. Finally, the invention also provides a method of screening proteins for the ability to catalyze bond formation, comprising the steps of:

a) providing a cell that expresses a pair of fusion proteins which upon dimerization activate a cellular readout;

b) providing a first compound and a second compound, each being capable of binding to one of the pair of fusion proteins, said first and second compound comprising a portion through which the first and second compounds are coupled to form the inventive compound by the action of the bond forming protein to be screened; and

c) screening for the cellular readout, wherein a change in the cellular readout indicates catalysis of bond formation by the protein to be screened.

IT 389085-33-0 389085-34-1

(yeast three-hybrid system for in vivo drug screening and enzyme evolution using chem. inducers of dimerization)

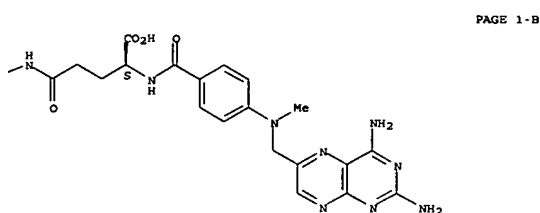
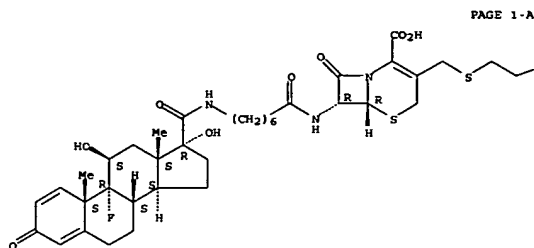
RN 389085-33-0 USPATFULL

L24 ANSWER 6 OF 71 USPATFULL (Continued)

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[[[2-[[[4S]-4-carboxy-4-[[4-[[[2,4-diamino-6-
pteridinyl)methyl]methylamino]benzoyl]amino]-1-

oxobutyl]amino)ethyl]thio)methyl]-7-[[[11.β.,17.α.]-9-fluoro-
11,17-dihydroxy-3-oxoandrosta-1,4-dien-17-yl]carbonyl]amino]-1-
oxoheptylamino]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

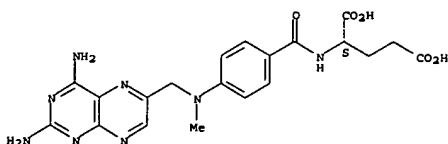


RN 389085-34-1 USPATFULL

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[[[2-[[[4S]-4-carboxy-4-[[4-[[[2,4-diamino-6-
pteridinyl)methyl]methylamino]benzoyl]amino]-1-

oxobutyl]amino)ethyl]thio)methyl]-7-[[[11.β.,17.α.]-9-fluoro-

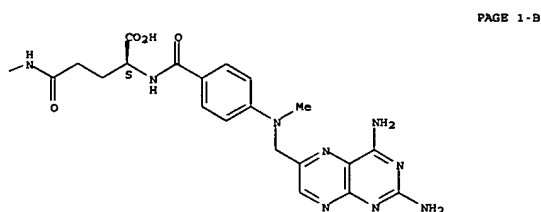
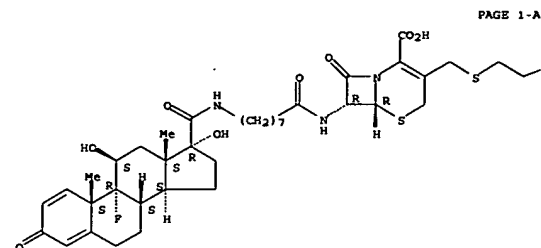
L24 ANSWER 6 OF 71 USPATFULL (Continued)



L24 ANSWER 6 OF 71 USPATFULL (Continued)

11,17-dihydroxy-3-oxoandrosta-1,4-dien-17-yl]carbonyl]amino]-1-
oxooctyl]amino]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 59-05-2D, Methotrexate, conjugates with receptor ligands
(yeast three-hybrid system for in vivo drug screening and enzyme
evolution using chem. inducers of dimerization)

RN 59-05-2 USPATFULL

CN L-Glutamic acid,

N-[4-[[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzo-
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 7 OF 71 USPATFULL

ACCESSION NUMBER: 2002:95380 USPATFULL

TITLE: Fusogenic lipids and vesicles

INVENTOR(S): Lemmon, Christopher Paul, West Lafayette, IN, United States

PATENT ASSIGNEE(S): ISIS Pharmaceuticals, Inc., Carlsbad, CA, United States

(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6379698	B1	20020430
APPLICATION INFO.:	US 1999-287175		19990406 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Nguyen, Dave T.		
LEGAL REPRESENTATIVE:	Woodcock Washburn LLP		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	925		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel lipid compounds are provided that may be termed "pro-cationic" in that they are neutral or negatively charged until they are either brought into contact with cellular membranes or are internalized by cells. The lipids have a hydrophobic tail group and a hydrophilic head group, the head group incorporating both a positively and negatively charged region at physiological pH. The hydrophobic tail group is stably connected to the positive region of the head group which in turn is connected to the negative region by a disulfide bond that is susceptible to cleavage by membrane-bound and intracellular factors. Cleavage of the disulfide bond removes the negatively charged region from the head group resulting in a lipid that is cationic and therefore fusogenic with negatively charged cell membranes. Consequently, lipids of the invention are useful as components of liposomes that serve as vehicles for delivering pharmaceutical agents into cells with reduced toxicity.

IT 300711-56-2P

(fusogenic lipids and vesicles for liposome drug delivery systems)

RN 300711-56-2 USPATFULL

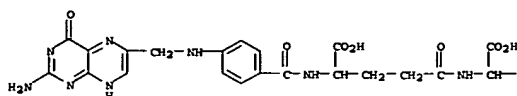
CN Poly(oxy-1,2-ethanediyl),

.alpha.-hydro.-omega.-[[16-[[3.β.]-cholest-5-

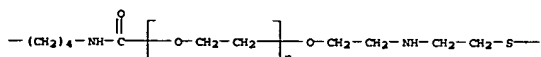
en-3-yloxy]-11-imino-16-oxo-6,7-dithia-3,12,15-triazahexadec-1-yl]oxy]-,
26-ester with N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-
pteridinyl)methyl]amino]benzoyl]-L-.gamma.-glutamyl-N6-carboxy-L-lysine
(9CI) (CA INDEX NAME)

L24 ANSWER 7 OF 71 USPATFULL (Continued)

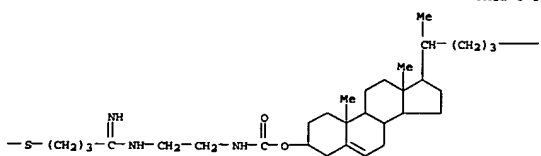
PAGE 1-A



PAGE 1-B

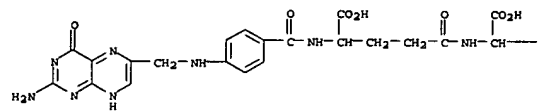


PAGE 1-C

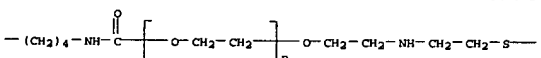


L24 ANSWER 7 OF 71 USPATFULL (Continued)

PAGE 1-A



PAGE 1-B



PAGE 1-C



L24 ANSWER 7 OF 71 USPATFULL (Continued)

PAGE 1-D

-CHMe2

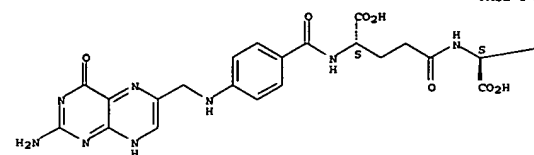
IT 300711-64-2
(prepn. of fusogenic lipids and vesicles for liposome drug delivery systems)

RN 300711-64-2 USPATFULL

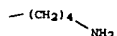
CN L-Lysine, N-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-L-.gamma.-glutamyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



IT 300711-60-8P
(prepn. of fusogenic lipids and vesicles for liposome drug delivery systems)

RN 300711-60-8 USPATFULL

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[2-[[2-(pyridin-2-ylthio)ethyl]amino]ethoxy]-, 26-ester with N-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-L-.gamma.-glutamyl-N6-carboxy-L-lysine (9CI) (CA INDEX NAME)

L24 ANSWER 8 OF 71 USPATFULL

ACCESSION NUMBER: 2002:88231 USPATFULL
TITLE: Methods and compositions for assaying analytes
Yuan, Chong-Sheng, San Diego, CA, United States
INVENTOR(S): General Atomic, San Diego, CA, United States (U.S. corporation)
PATENT ASSIGNEE(S):

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6376210	B1	20020423
APPLICATION INFO:	US 1999-347878		19990706 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Achutamurthy, Ponnathapu		
ASSISTANT EXAMINER:	Saidha, Tekchand		
LEGAL REPRESENTATIVE:	Morrison & Foerster LLP		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	9004		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for assaying analytes, preferably, small molecule analytes. Assay methods that employ, in place of antibodies or molecules that bind to target analytes or substrates, modified enzymes, called substrate trapping enzymes. These modified enzymes retain binding

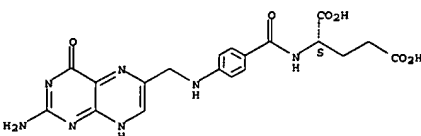
affinity or have enhanced binding affinity for a target substrate or analyte, but have attenuated catalytic activity with respect to that substrate or analyte. The modified enzymes are also provided. In particular, a mutant S-adenosylhomocysteine (SAH) hydrolases, substantially retaining binding affinity or having enhanced binding affinity for Hcy or SAH but having attenuated catalytic activity, are provided. Also provided are methods, combinations, kits and articles of manufacture for assaying analytes, preferably small molecule analytes such as inorganic ions, amino acids (e.g., homocysteine), peptides, nucleosides, nucleotides, oligonucleotides, vitamins, monosaccharides (e.g., glucose), oligosaccharides, lipids (e.g., cholesterol), organic acids (e.g., folate species, bile acids and uric acids).

IT 59-30-3, analysis
(methods and compns. for assaying analytes)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 9 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:45363 USPATFULL
 TITLE: Nutritional composition
 INVENTOR(S): Kirschner, Mitchell I., St. Louis, MO, United States
 Levinson, R. Saul, Chesterfield, MO, United States
 Paradissia, George N., St. Louis, MO, United States
 Patent Assignee(S): Drugtech Corporation, Wilmington, DE, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6352713	B1	20020305
APPLICATION INFO.:	US 1999-451849		19991201 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Page, Thurman K.		
ASSISTANT EXAMINER:	Tran, S.		
LEGAL REPRESENTATIVE:	Nath & Associates PLLC, Nath, Gary M., Goldberg, Joshua		

NUMBER OF CLAIMS: 51
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
 LINE COUNT: 1297

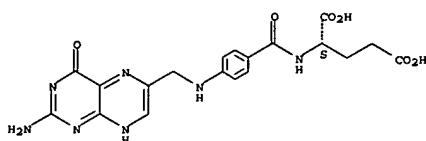
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present inventive subject matter is directed to novel chevable prenatal nutritional supplements which contain vitamin C, as well as novel methods for providing optimal vitamin C supplementation to pregnant women. The present invention is also directed to novel compositions and methods for providing nutritional supplementation to individuals planning to conceive a child.

IT 59-30-3, Folic acid, biological studies
 (nutritional compn. comprising vitamin C)

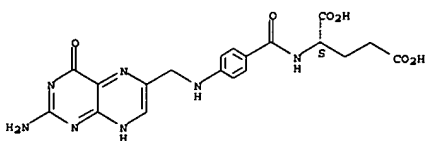
RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 10 OF 71 USPATFULL (Continued)

Absolute stereochemistry.



L24 ANSWER 10 OF 71 USPATFULL
 ACCESSION NUMBER: 2002:14058 USPATFULL
 TITLE: Reagent system and method for increasing the luminescence of lanthanide(III) macrocyclic complexes
 INVENTOR(S): Leif, Robert C., 5648 Toyon Rd., San Diego, CA, United States 92115-1022
 Vallarino, Lidia, 1009 West Ave, Richmond, VA, United States 23220

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6340744	B1	20020122
APPLICATION INFO.:	US 2000-484670		20000118 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-116316P	19990119 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Hartley, Michael G.	
LEGAL REPRESENTATIVE:	Schwartz, Robert M., Kauder, Otto S., Hibnick, Gerald R.	

NUMBER OF CLAIMS: 40
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 13 Drawing Figure(s); 13 Drawing Page(s)
 LINE COUNT: 2136

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are a spectrofluorimetrically detectable luminescent composition and processes for enhancing the luminescence of one or more lanthanide-containing macrocycles. The luminescent composition

comprises a micelle-producing amount of at least one surfactant, at least one energy transfer acceptor lanthanide element macrocycle compound having an emission spectrum peak in the range from 500 to 950 nanometers, and

a luminescence-enhancing amount of at least one energy transfer donor compound of yttrium or a 3-valent lanthanide element having atomic number 59-71, provided that the lanthanide element of said macrocycle compound and the lanthanide element of said energy transfer donor compound are not identical. The addition of gadolinium(III) in the presence of other solutes to both the prototype and the

difunctionalized europium, samarium, and terbium macrocyclic complexes, which were taught

in our U.S. Pat. Nos. 5,373,093 and 5,696,240, enhances their luminescence. Similar enhancements of luminescence also results for the mono-functionalized europium, samarium, and terbium macrocyclic complexes, which were taught in our U.S. Pat. No. 5,696,240. The enhanced luminescence afforded by the composition enables the detection and/or quantitation of many analytes in low concentrations without the use of expensive, complicated time-gated detection systems.

IT 59-30-3, Folic acid, analysis
 (a reagent system and method for increasing luminescence of lanthanide(III) macrocyclic complexes)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 11 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:224132 USPATFULL
 TITLE: Antioxidant enhancement of therapy for hyperproliferative conditions
 INVENTOR(S): Chinery, Rebecca, Nashville, TN, United States
 Beauchamp, R. Daniel, Nashville, TN, United States
 Coffey, Robert J., Woodside, CA, United States
 Medford, Russell M., Atlanta, GA, United States
 Wadzinski, Brian E., Nashville, TN, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001049349	A1	20011206
APPLICATION INFO.:	US 2001-779086	A1	20010207 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-108609, filed on 1 Jul 1998, ABANDONED		

Continuation of Ser. No. US 1997-967492, filed on 11 Nov 1997, ABANDONED
 Continuation-in-part of Ser. No. US 1997-886653, filed on 1 Jul 1997, ABANDONED

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: Sherry M. Knowles, Esq., KING & SPALDING, 45th Floor, 191 Peachtree Street, N.E., Atlanta, GA, 30303

NUMBER OF CLAIMS: 30
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 28 Drawing Page(s)
 LINE COUNT: 2353

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

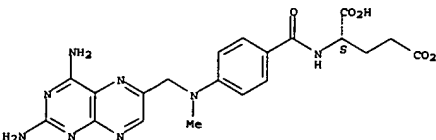
AB A method to enhance the cytotoxic activity of an antineoplastic drug comprising administering an effective amount of the antineoplastic drug to a host exhibiting abnormal cell proliferation in combination with an effective cytotoxicity-increasing amount of an antioxidant. The invention also includes a method to decrease the toxicity to an antineoplastic agent or increase the therapeutic index of an antineoplastic agent administered for the treatment of a solid growth

of abnormally proliferating cells, comprising administering an antioxidant prior to, with, or following the antineoplastic treatment.

IT 59-05-2, Methotrexate 15475-56-6, Methotrexate sodium

RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]amino]benzo
 yl]- (9CI) (CA INDEX NAME)

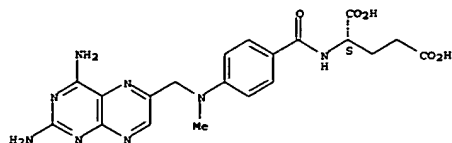
Absolute stereochemistry.



RN 15475-56-6 USPATFULL

L24 ANSWER 11 OF 71 USPATFULL (Continued)
 CN L-Glutamic acid,
 N-[4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzo
 yl]-, sodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●x Na

L24 ANSWER 12 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:223698 USPATFULL
 TITLE: Radioactive therapeutic liposomes
 INVENTOR(S): Larsen, Roy H., Bekkestua, Norway
 Henriksen, Gjermund, Mjondalen, Norway

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001048914	A1	20011206
APPLICATION INFO.:	US 2001-790260	A1	20010221 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	NO 2000-855	20000321
	WO 2001-NO65	20010221
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	CLARK & ELBING LLP, 176 FEDERAL STREET, BOSTON, MA, 02110-2214	
NUMBER OF CLAIMS:	32	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	1005	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

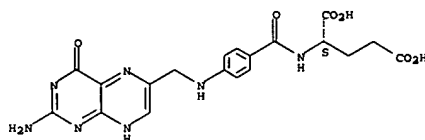
AB The present invention relates to a conjugator system comprising liposomes with ionophores, and with chelator solution and alpha-particle emitting radionuclide(s) located inside of the liposome. Furthermore, a the method for the preparation of this type of radioactive liposomes is described, as well as use of the system and a kit for preparing the system.

IT 59-30-3DP, Folic acid, conjugates (radioactive therapeutic liposomes conjugated to proteins or other receptor-affinic mols.)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 13 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:212421 USPATFULL
 TITLE: Compound containing a labile disulfide bond
 INVENTOR(S): Wolff, Jon A., Madison, WI, United States
 Monahan, Sean D., Madison, WI, United States
 Budker, Vladimir G., Middleton, WI, United States
 Slattum, Paul M., Madison, WI, United States
 Rozema, David B., Madison, WI, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001044417	A1	20011122
APPLICATION INFO.:	US 2001-779791	A1	20010208 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-312351, filed on 14 May 1999, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Mark K. Johnson, PO Box 510644, New Berlin, WI, 53151-0644		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2264		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A labile disulfide-containing compound under physiological conditions containing a labile disulfide bond and a transduction signal.

IT 313056-36-9P

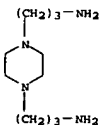
(compd. contg. a labile disulfide bond)

RN 313056-36-9 USPATFULL

CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]-, polymer with 3,3'-dithiobis[6-nitrobenzoic acid] and 1,4-piperazinedipropylamine (9CI) (CA INDEX NAME)

CM 1

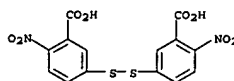
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 CMP C10 H24 N4



CM 2

CRN 69-78-3
 CMP C14 H8 N2 O8 S2

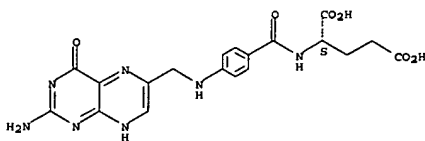
L24 ANSWER 13 OF 71 USPATFULL (Continued)



CM 3

CRN 59-30-3
 CMP C19 H19 N7 O6
 CDES S:L

Absolute stereochemistry.



L24 ANSWER 14 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:114360 USPATFULL
 TITLE: Receptor binding conjugates
 INVENTOR(S): Larsen, Roy H., Bekkestua, Norway
 Henriksen, Gjermund, Mjondalen, Norway

NUMBER	KIND	DATE
US 2001008625	A1	20010719
US 2000-731301	A1	20001205 (9)

NUMBER	DATE
NO 1999-5978	19991206

PATENT INFORMATION: NO 1999-5978 19991206
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: Paul T. Clark, Clark & Elbing LLP, 176 Federal Street, Boston, MA, 02110
 NUMBER OF CLAIMS: 24
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 6 Drawing Page(s)
 LINE COUNT: 774

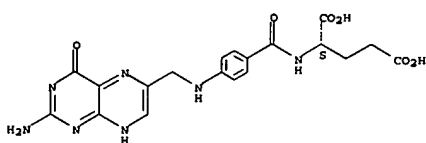
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a receptor binding conjugate which consists of an antibody, a radionuclide and folate or a folate derivative, wherein or not the conjugate possesses dual binding ability. The present invention also relates to a method and a kit to prepare, as well as a method to use, such conjugates. Furthermore, the use of a conjugate according to the present invention to prepare a pharmaceutical solution is disclosed.

IT 59-30-IDP, (derivs.) conjugates
 (receptor binding conjugates comprising antibody and radionuclide and folate for radiotherapy and imaging)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 59-30-3, Folic acid, reactions
 (receptor binding conjugates comprising antibody and radionuclide and folate for radiotherapy and imaging)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:95283 USPATFULL
 TITLE: Metal complexes derivatized with folate for use in diagnostic and therapeutic applications
 INVENTOR(S): Wedeking, Paul W., Pennington, NJ, United States
 Wager, Ruth E., Rockville, MD, United States
 Arunachalam, Thangavel, Plainsboro, NJ, United States
 Ramalingam, Kondareddiar, Dayton, NJ, United States
 Linder, Karen E., Kingston, NJ, United States
 Rangasathan, Ramachandran S., Princeton, NJ, United States
 Nunn, Adrian D., Lambertville, NJ, United States
 Raju, Natarajan, Kendall Park, NJ, United States
 Tweedle, Michael F., Princeton, NJ, United States

NUMBER	KIND	DATE
US 2001004454	A1	20010621
US 2000-752867	A1	20001230 (9)

APPLICATION INFO.: Division of Ser. No. US 2000-477072, filed on 3 Jan 2000, PENDING Division of Ser. No. US 1998-80157, filed

on 16 May 1998, GRANTED, Pat. No. US 6093382
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: The Law Offices of Imre Balogh, 276 Smith School Road, Perkasie, PA, 18944
 NUMBER OF CLAIMS: 127
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 32 Drawing Page(s)
 LINE COUNT: 4979

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Diagnostic and therapeutic compositions in the form of complexes for enhancing transmembrane transport of a diagnostic or therapeutic agent and methods for their use. The complexes contain the .alpha., .gamma., or .delta. isomers of folate receptor-binding analogs of folate, a metal chelated by a ligand, and in one embodiment, a chemotherapeutic agent.

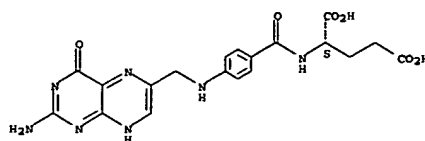
IT 251084-37-4P 251084-40-9P 251084-43-2P
 251084-49-8P 251084-50-1P 251084-51-2P
 (prepn. and reactant for prep. of metal complexes for use in diagnostic and therapeutic applications)

RN 251084-37-4 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[[4-[[[4S]-4-[[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

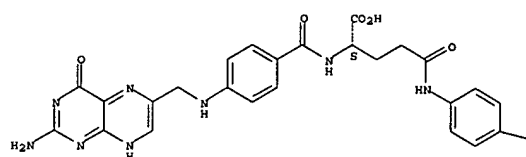
L24 ANSWER 14 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

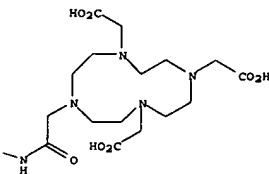


L24 ANSWER 15 OF 71 USPATFULL (Continued)

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PAGE 1-B

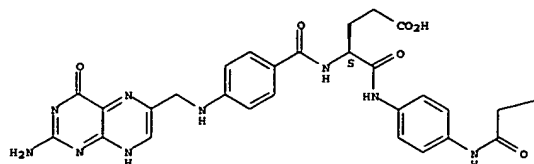


RN 251084-40-9 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[[4-[[[4S]-4-[[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

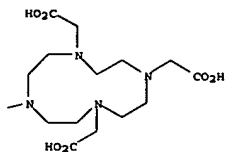
Absolute stereochemistry.

L24 ANSWER 15 OF 71 USPATFULL (Continued)

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RN 251084-43-2 USPATFULL

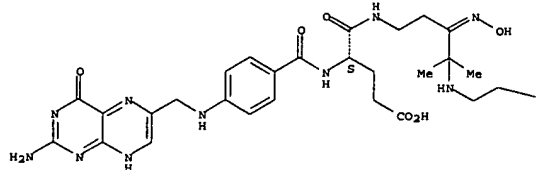
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanedyl]]bis(imino-4,1-phenyleneimino(2-oxo-2,1-ethanedyl))]bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

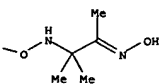
L24 ANSWER 15 OF 71 USPATFULL (Continued)
 oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-
 3,3,9,9-tetramethyl-14-oxo-, (15S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

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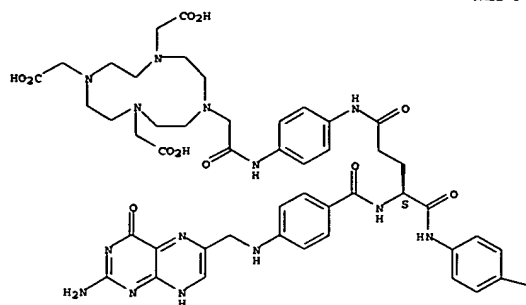


RN 251084-50-1 USPATFULL

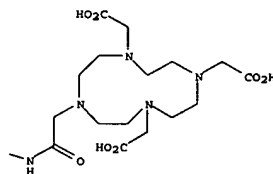
CN Technetate(1-)-99Tc, [(4S)-4-[[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino-kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-, hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

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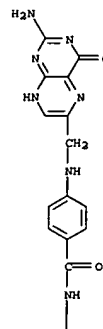


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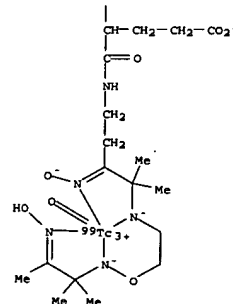
CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
 15-[[4-[[[(2-amino-1,4-dihydro-4-

L24 ANSWER 15 OF 71 USPATFULL (Continued)

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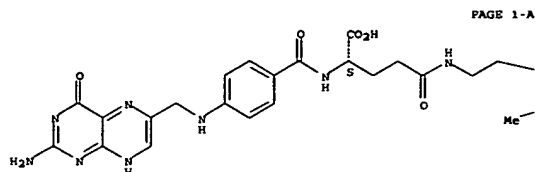


RN 251084-51-2 USPATFULL

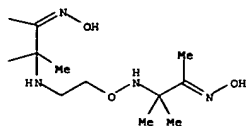
CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
 17-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-

L24 ANSWER 15 OF 71 USPATFULL (Continued)
3,3,9,9-tetramethyl-14-oxo-, (17S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



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IT 251084-38-5P 251084-39-6P 251084-41-0P
251084-42-1P 251084-44-3P 251084-45-4P
251084-52-3P

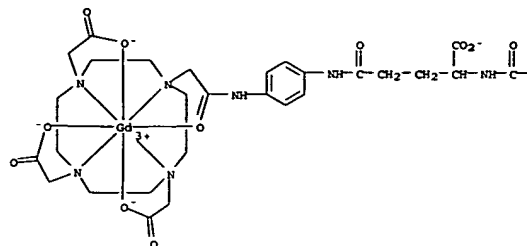
(prepn. for use in diagnostic and therapeutic applications)

RN 251084-38-5 USPATFULL
CN Gadolinate(1-), [10-[2-[[4-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

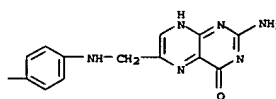
L24 ANSWER 15 OF 71 USPATFULL (Continued)

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• Na+

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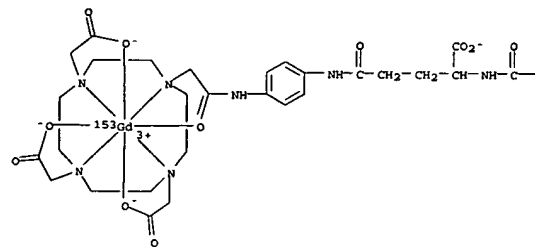
RN 251084-39-6 USPATFULL

CN Gadolinate(1-)-153Gd, [10-[2-[[4-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

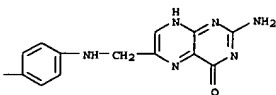
L24 ANSWER 15 OF 71 USPATFULL (Continued)

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• Na+

PAGE 1-B



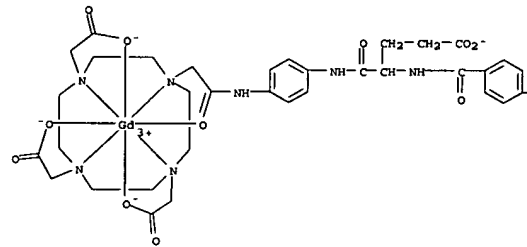
RN 251084-41-0 USPATFULL

CN Gadolinate(1-), [10-[2-[[4-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

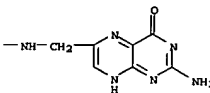
L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A



• Na+

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RN 251084-42-1 USPATFULL

CN Gadolinate(1-)-153Gd, [10-[2-[[4-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

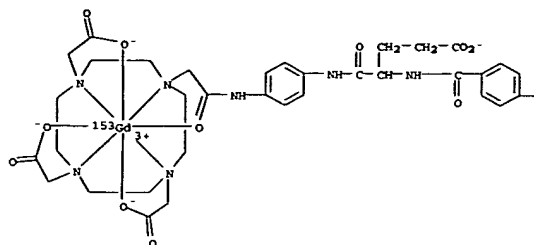
tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

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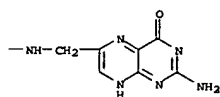
PAGE 1-A

● Na⁺

O

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RN 251084-44-3 USPATFULL
 CN Gadolinium, [mu.-{[10,10'-[[2-[[4-[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediy]]bis[imino-4,1-phenyleneimino[2-(oxo-kappa.O)-2,1-ethanediy]]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]](6-)]di-(9CI) (CA INDEX NAME)

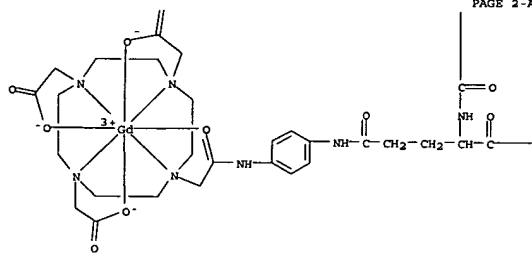
O

L24 ANSWER 15 OF 71 USPATFULL (Continued)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

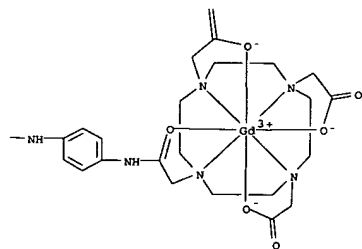
PAGE 2-A

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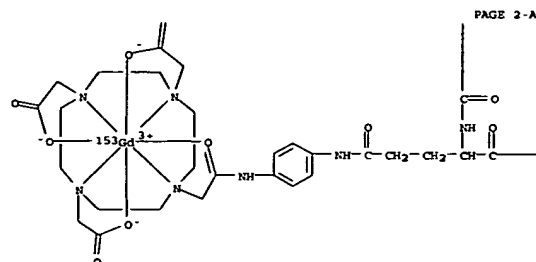
PAGE 1-B



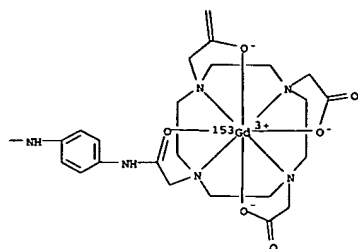
RN 251084-45-4 USPATFULL
 CN Gadolinium-153Gd, [mu.-{[10,10'-[[2-[[4-[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediy]]bis[imino-4,1-phenyleneimino[2-(oxo-kappa.O)-2,1-ethanediy]]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]](6-)]di-(9CI) (CA INDEX NAME)

O

L24 ANSWER 15 OF 71 USPATFULL (Continued)

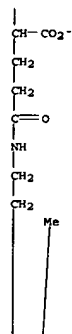


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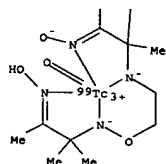


RN 251084-52-3 USPATFULL
 CN Technetate(1-)-99Tc, [(2S)-2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino- κ .N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanato(4-)]-], hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)



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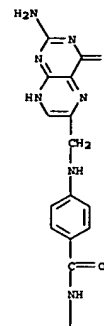
PAGE 3-A

• H⁺

IT 251084-56-7P 251084-60-3P 251084-64-7P
 251084-76-1P 251084-80-7P
 (reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)
 RN 251084-56-7 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(2S)-2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-

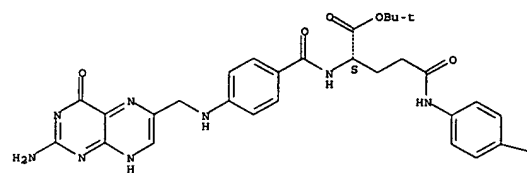
L24 ANSWER 15 OF 71 USPATFULL (Continued)

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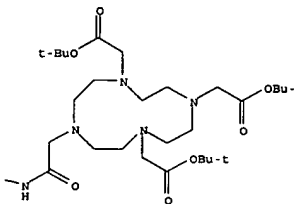


L24 ANSWER 15 OF 71 USPATFULL (Continued)
 , tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

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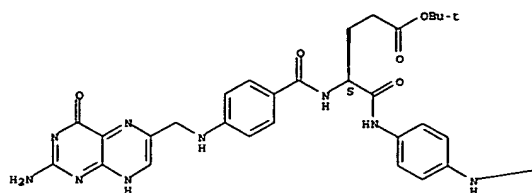
PAGE 1-B



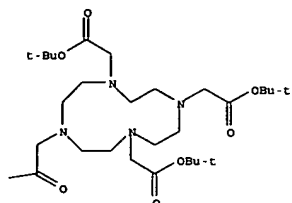
RN 251084-60-3 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(2S)-2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 15 OF 71 USPATFULL (Continued)

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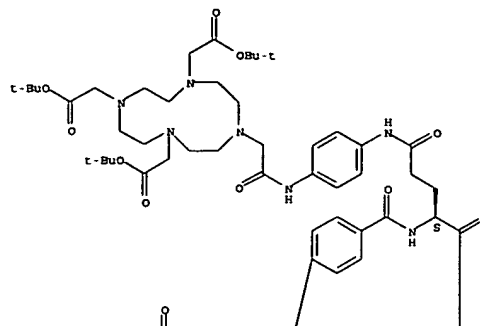


RN 251084-64-7 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[{(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentenediyl]]bis[imino-4,1-phenyleneimino(2-oxo-2,1-ethanediy)]]]bis-, hexakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

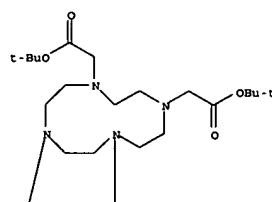
Absolute stereochemistry.

L24 ANSWER 15 OF 71 USPATFULL (Continued)

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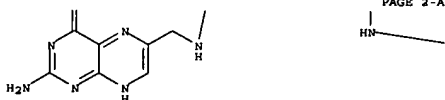


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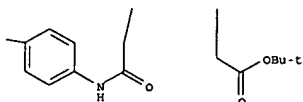


L24 ANSWER 15 OF 71 USPATFULL (Continued)

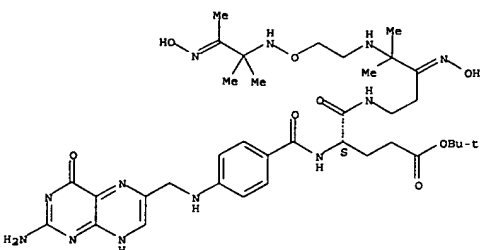
PAGE 2-A



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RN 251084-76-1 USPATFULL
 CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
 15-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (15S)- (9CI) (CA INDEX NAME)

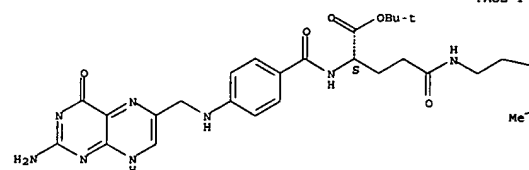
Absolute stereochemistry.
Double bond geometry unknown.

RN 251084-80-7 USPATFULL
 CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
 17-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (17S)- (9CI) (CA INDEX NAME)

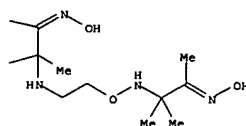
L24 ANSWER 15 OF 71 USPATFULL (Continued)

Absolute stereochemistry.
Double bond geometry unknown.

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L24 ANSWER 16 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:208679 USPATFULL
 TITLE: Nucleic acids encoding mutant human carboxypeptidase A enzymes
 INVENTOR(S): Smith, Gary Keith, Raleigh, NC, United States
 Blumenkopf, Todd Andrew, Old Lyme, CT, United States
 Cory, Michael, Chapel Hill, NC, United States
 PATENT ASSIGNEE(S): Glaxo Wellcome, Inc., Research Triangle Park, NC, United States (U.S. corporation)

NUMBER	KIND	DATE
US 6319702	B1	20011120
US 1999-195936		19990914 (9)

RELATED APPL. INFO.: Continuation of Ser. No. US 640906, now patented, Pat. No. US 6140100

NUMBER	DATE
GB 1993-23429	19931112

PRIORITY INFORMATION:
 DOCUMENT TYPE: Utility
 FILE SEGMENT: GRANTED
 PRIMARY EXAMINER: Achutamurthy, Ponnathapu
 ASSISTANT EXAMINER: Moore, William W.
 LEGAL REPRESENTATIVE: Bennett, Virginia C.
 NUMBER OF CLAIMS: 30
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 7 Drawing Figure(s); 5 Drawing Page(s)
 LINE COUNT: 7093

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to nucleic acid molecules encoding mutant human carboxypeptidase A enzymes, and encoding conjugates of targeting molecules and mutant human carboxypeptidase A enzymes. The invention further relates to vectors and cell lines containing such nucleic acid molecules.

IT 167549-87-3P 167549-96-4P 167550-14-3P
 167550-27-8P 167550-54-1P 167550-61-0P
 167550-81-4P 167550-86-9P 167550-98-3P
 167551-08-8P

(Improvement of antibody-directed enzyme prodrug therapy (ADEPT))

RN 167549-87-3 USPATFULL

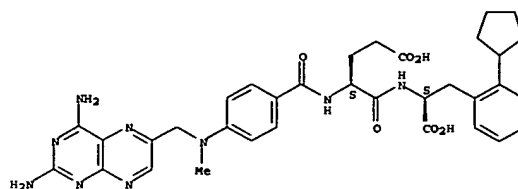
CN L-Phenylalanine,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo

yl]-L-.alpha.-glutamyl-3-cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)



RN 167549-96-4 USPATFULL

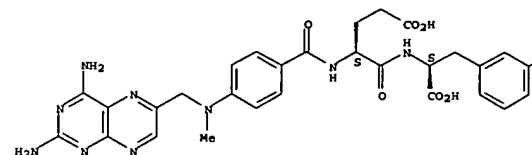
CN L-Phenylalanine,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo

yl]-L-.alpha.-glutamyl-3-cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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RN 167550-14-3 USPATFULL

CN L-Phenylalanine,

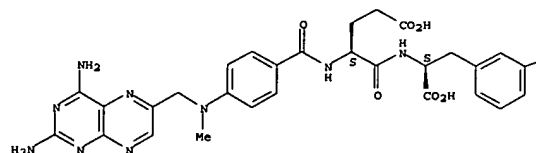
N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo

yl]-L-.alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

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Bu-t

RN 167550-27-8 USPATFULL

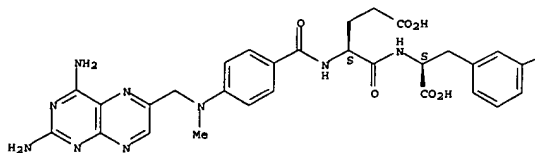
CN L-Phenylalanine,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo

yl]-L-.alpha.-glutamyl-3-cyclobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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RN 167550-54-1 USPATFULL

CN L-Phenylalanine,

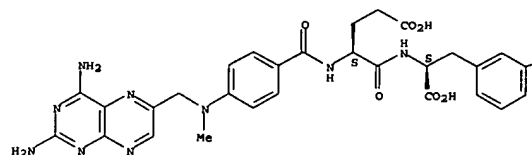
N-[N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]be

nzoyl]-L-.alpha.-glutamyl]-3-(trimethylsilyl)- (9CI) (CA INDEX NAME)

L24 ANSWER 16 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

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PAGE 1-B

SiMe3

RN 167550-61-0 USPATFULL

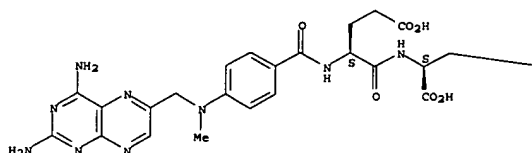
CN L-Tyrosine,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-

.alpha.-glutamyl-3-cyclopentyl]- (9CI) (CA INDEX NAME)

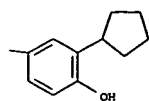
Absolute stereochemistry.

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L24 ANSWER 16 OF 71 USPATFULL (Continued)

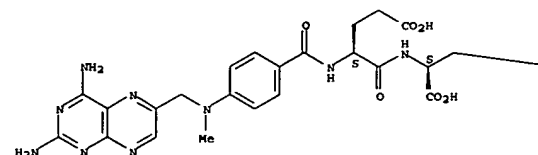
PAGE 1-B



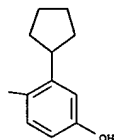
RN 167550-81-4 USPATFULL
 CN L-Tyrosine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-
 .alpha.-glutamyl-2-cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

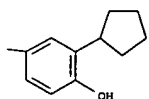


RN 167550-86-9 USPATFULL
 CN L-Tyrosine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-
 .alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

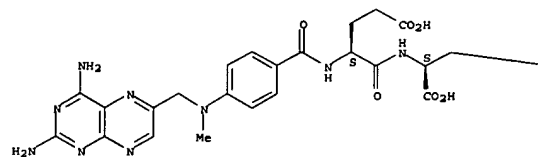
PAGE 1-B



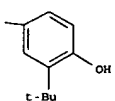
RN 167551-08-8 USPATFULL
 CN L-Tyrosine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-
 .alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

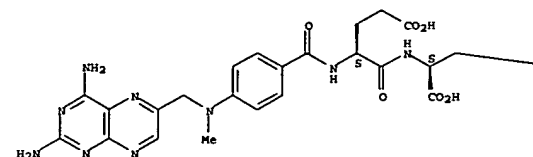


IT 71074-48-1P 118355-51-4P 167549-40-8P
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 167549-67-9P 167549-75-9P 167549-76-0P
 167549-86-2P 167549-95-3P 167550-05-2P
 167550-06-3P 167550-13-2P 167550-26-7P
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 167550-71-2P 167550-72-3P 167550-80-3P
 167550-85-8P 167550-97-2P 167551-07-7P
 (improvement of antibody-directed enzyme prodrug therapy (ADEPT))
 RN 71074-48-1 USPATFULL
 CN L-Aspartic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo

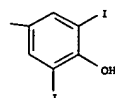
L24 ANSWER 16 OF 71 USPATFULL (Continued)
 .alpha.-glutamyl-3,5-diido- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



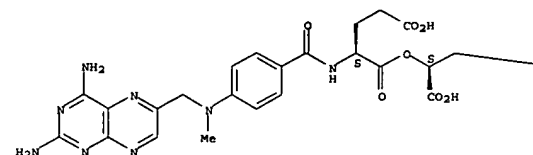
PAGE 1-B



RN 167550-98-3 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]-1-[1-carboxy-2-(3-cyclopentyl-4-hydroxyphenyl)ethyl] ester, (S)-
 (9CI) (CA INDEX NAME)

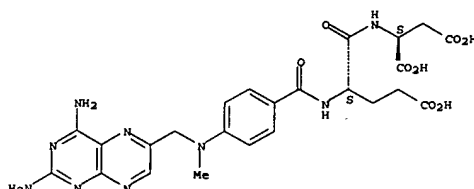
Absolute stereochemistry.

PAGE 1-A



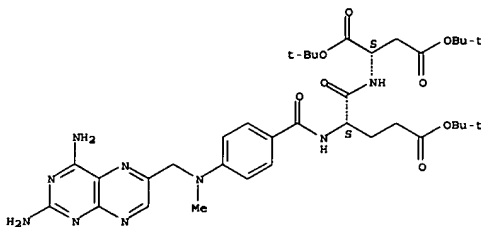
L24 ANSWER 16 OF 71 USPATFULL (Continued)
 yl]-L-.alpha.-glutamyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 118355-51-4 USPATFULL
 CN L-Aspartic acid,
 N-[N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]be
 nzoyl]-L-.alpha.-glutamyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA
 INDEX NAME)

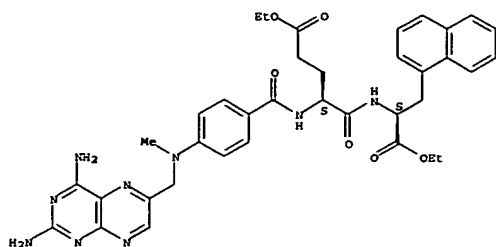
Absolute stereochemistry.



RN 167549-40-8 USPATFULL
 CN L-Alanine,
 N-[N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-
 L-.alpha.-glutamyl]-3-(1-naphthalenyl)-, diethyl ester (9CI) (CA INDEX
 NAME)

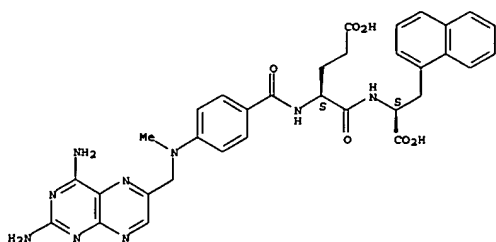
Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)



RN 167549-42-0 USPATFULL
 CN L-Alanine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(1-naphthalenyl)- (9CI) (CA INDEX NAME)

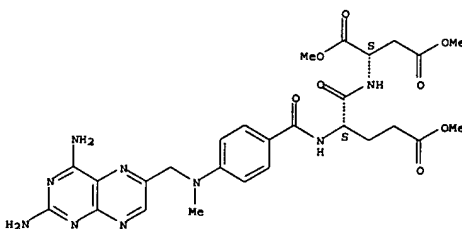
Absolute stereochemistry.



RN 167549-49-7 USPATFULL
 CN L-Phenylalanine,
 N-[N-[[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-2-(methoxycarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)

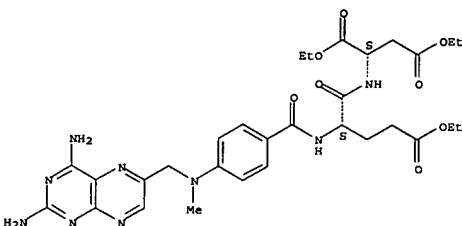
Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)



RN 167549-57-7 USPATFULL
 CN L-Aspartic acid,
 N-[N-[[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, triethyl ester (9CI) (CA INDEX NAME)

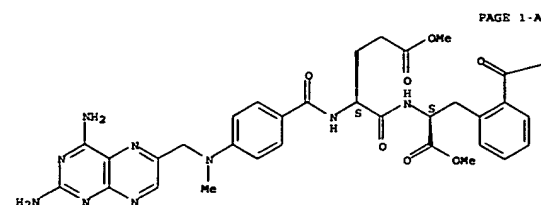
Absolute stereochemistry.



RN 167549-66-8 USPATFULL
 CN L-Tyrosine,
 N-[N-[[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-[[1,1-dimethylethoxy]carbonyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)



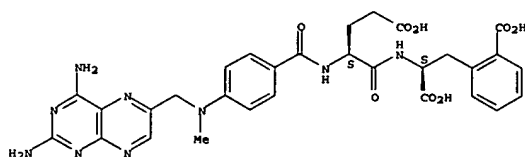
PAGE 1-A

PAGE 1-B

OMe

RN 167549-50-0 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-2-carboxy- (9CI) (CA INDEX NAME)

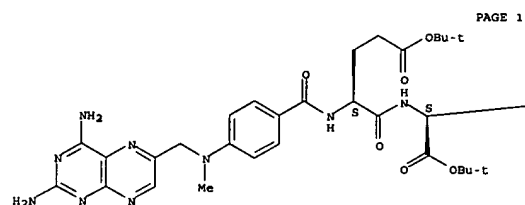
Absolute stereochemistry.



RN 167549-54-4 USPATFULL
 CN L-Aspartic acid,
 N-[N-[[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, trimethyl ester (9CI) (CA INDEX NAME)

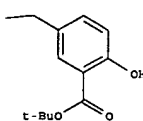
Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)



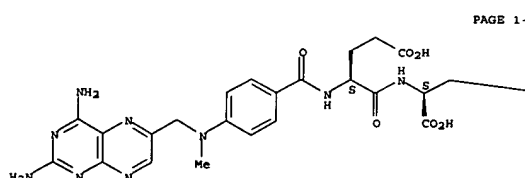
PAGE 1-A

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RN 167549-67-9 USPATFULL
 CN L-Tyrosine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-carboxy- (9CI) (CA INDEX NAME)

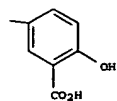
Absolute stereochemistry.



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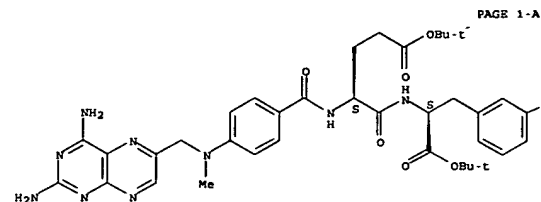
L24 ANSWER 16 OF 71 USPATFULL (Continued)

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RN 167549-75-9 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(methoxycarbonyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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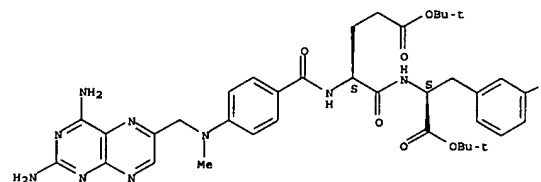


RN 167549-76-0 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-carboxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

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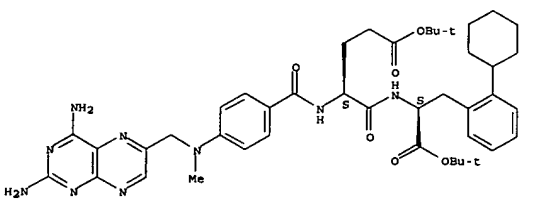


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RN 167550-05-2 USPATFULL
 CN L-Phenylalanine, 2-cyclohexyl-N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

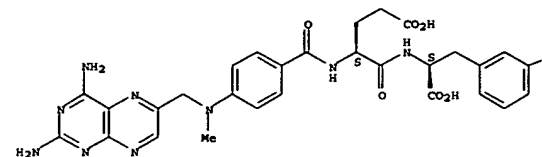


RN 167550-06-3 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-2-cyclohexyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

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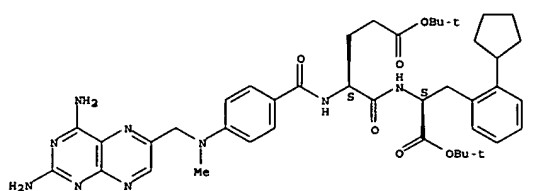


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RN 167549-86-2 USPATFULL
 CN L-Phenylalanine, 2-cyclopentyl-N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

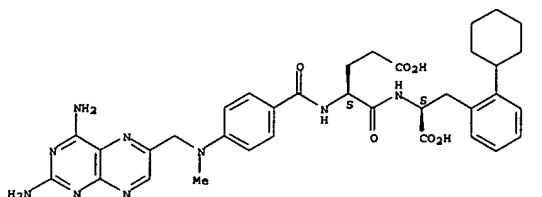


RN 167549-95-3 USPATFULL
 CN L-Phenylalanine, 3-cyclopentyl-N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

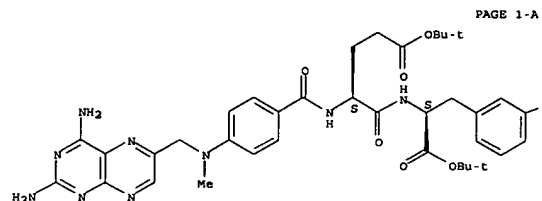
L24 ANSWER 16 OF 71 USPATFULL (Continued)

(Continued)



RN 167550-13-2 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(1,1-dimethylethyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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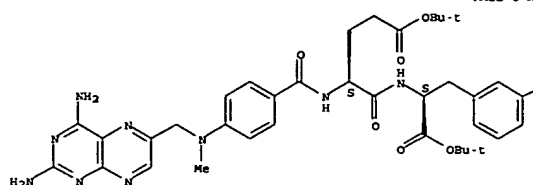


RN 167550-26-7 USPATFULL
 CN L-Phenylalanine, 3-cyclobutyl-N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

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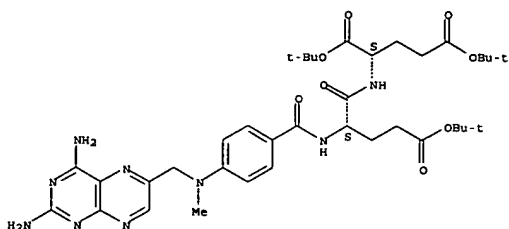


RN 167550-35-8 USPATFULL

CN L-Glutamic acid,

N-[N-(4-(((2,4-diamino-6-pteridiny)l)methyl)methylamino)benzoyl]-L-α-glutamyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 167550-53-0 USPATFULL

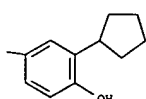
CN L-Phenylalanine,

N-[N-(4-(((2,4-diamino-6-pteridiny)l)methyl)methylamino)benzoyl]-L-α-glutamyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

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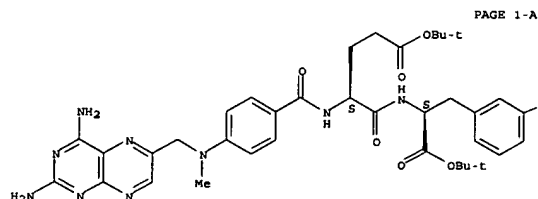


RN 167550-71-2 USPATFULL

CN L-Phenylalanine,

N-[N-(4-(((2,4-diamino-6-pteridiny)l)methyl)methylamino)benzoyl]-L-α-glutamyl]-3-(1-ethylpropyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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RN 167550-72-3 USPATFULL

CN L-Phenylalanine,

N-[N-(4-(((2,4-diamino-6-pteridiny)l)methyl)methylamino)benzoyl]-L-α-glutamyl]-3-(1-ethylpropyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

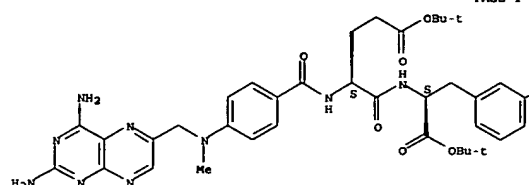
Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

N-[N-(4-(((2,4-diamino-6-pteridiny)l)methyl)methylamino)benzoyl]-L-α-glutamyl]-3-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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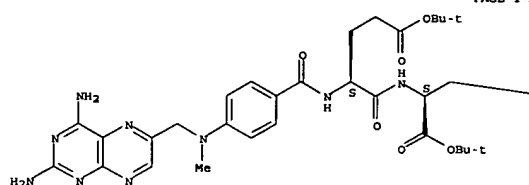


RN 167550-60-9 USPATFULL

CN L-Tyrosine, 3-cyclopentyl-N-[N-(4-(((2,4-diamino-6-pteridiny)l)methyl)methylamino)benzoyl]-L-α-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

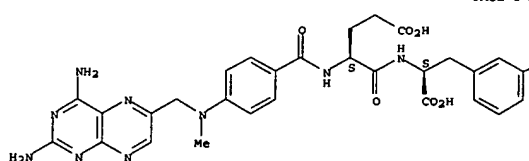
Absolute stereochemistry.

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L24 ANSWER 16 OF 71 USPATFULL (Continued)

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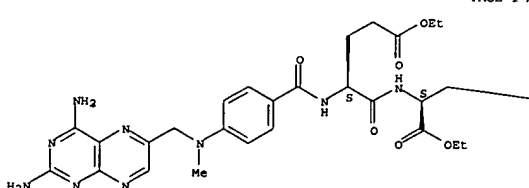


RN 167550-80-3 USPATFULL

CN L-Tyrosine, 2-cyclopentyl-N-[N-(4-(((2,4-diamino-6-pteridiny)l)methyl)methylamino)benzoyl]-L-α-glutamyl]-, diethyl ester (9CI) (CA INDEX NAME)

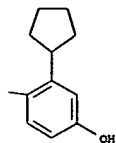
Absolute stereochemistry.

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L24 ANSWER 16 OF 71 USPATFULL (Continued)

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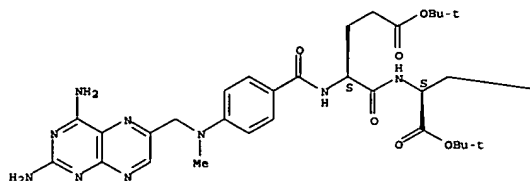
RN 167550-85-8 USPATFULL

CN L-Tyrosine,

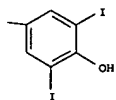
N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3,5-diiodo-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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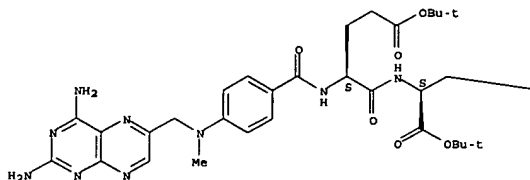


PAGE 1-B

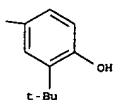


L24 ANSWER 16 OF 71 USPATFULL (Continued)

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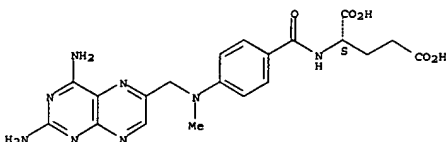
IT 59-05-2DP, Methotrexate, deriva.
(prodrugs; improvement of antibody-directed enzyme prodrug therapy (ADEPT))

RN 59-05-2 USPATFULL

CN L-Glutamic acid,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3,5-diiodo-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 16 OF 71 USPATFULL (Continued)

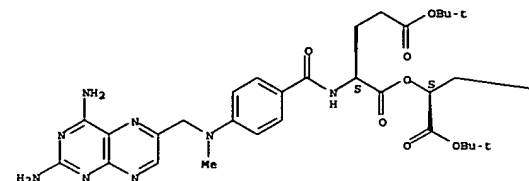
RN 167550-97-2 USPATFULL

CN L-Glutamic acid,

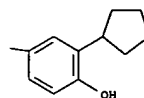
N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3,5-diiodo-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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RN 167551-07-7 USPATFULL

CN L-Tyrosine,

N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3,5-diiodo-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 17 OF 71 USPATFULL

ACCESSION NUMBER: 2001:173161 USPATFULL

TITLE: Multi-vitamin and mineral supplement

INVENTOR(S): Cooper, Kenneth H., Dallas, TX, United States

Jialal, Ishwarlal, Dallas, TX, United States

Grundy, Scott Montgomery, Dallas, TX, United States

Willett, Walter Churchill, Cambridge, MA, United States

States Selhub, Jacob, Brookline, MA, United States

PATENT ASSIGNEE(S): Cooper Concepts, Inc., Dallas, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6299896	B1	20011009
APPLICATION INFO.:	US 2000-548515		20000413 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Page, Thurman K.		
ASSISTANT EXAMINER:	Pulliam, Amy E		
LEGAL REPRESENTATIVE:	Arter & Madden LLP		
NUMBER OF CLAIMS:	42		
EXEMPLARY CLAIMS:	1		
LINE COUNT:	1262		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

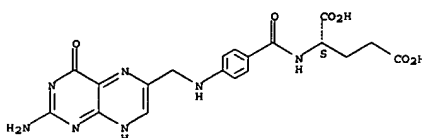
AB This invention is directed to a multi-vitamin and mineral supplement tailored to men and post-menopausal women, pre-menopausal women, and athletes which supplies the right amount of the right micronutrients at the right time to assure adequate intake of micronutrients needed for disease prevention and protection against nutritional losses and deficiencies due to lifestyle factors and common inadequate dietary patterns. The multi-vitamin and mineral supplement is comprised of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B1, vitamin B2, niacinamide, vitamin B6, vitamin B12, biotin, pantothenic acid, iron, iodine, magnesium, zinc, selenium, copper, chromium, potassium, choline, lycopene, and co-enzyme Q-10.

IT 59-30-3, Folic acid, biological studies
(oral compns. for multi-vitamin and mineral supplements for men and women)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-L-.alpha.-glutamyl]-3,5-diiodo-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 18 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:158491 USPATFULL
 TITLE: Folic acid derivatives
 INVENTOR(S): Fuchs, Philip L., West Lafayette, IN, United States
 Luo, Jin, West Lafayette, IN, United States
 Lantrip, Douglas A., Lafayette, IN, United States
 PATENT ASSIGNEE(S): Purdue Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6291673	B1	20010918
	WO 9920626		19990429
APPLICATION INFO.:	US 2000-529682		20000417 (9)
	WO 1998-US21914		19981016
			20000417 PCT 371 date
			20000417 PCT 102(e) date

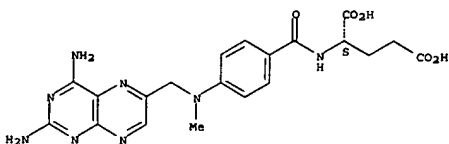
	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-62009P	19971017 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Ford, John M.	
LEGAL REPRESENTATIVE:	Barnes & Thornburg	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	1065	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Novel folic acid derivatives and their use in preparation of .gamma.-esters of folic acid via a pteroyl azide intermediate are described. Folic acid .gamma.-esters are useful intermediates in the synthesis of folic acid conjugates capable of binding folate receptors in vitro and in vivo.
 IT 185130-29-4DP, complexes with indium-111
 (pteroyl azide intermediates in prepn. of folic acid-drug conjugates)
 RN 185130-29-4 USPATFULL
 CN 3,6,9,12,15-Pentassaccharosanedioic acid, 19-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-3,6,9-tris(carboxymethyl)-11,16-dioxo-, (19S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

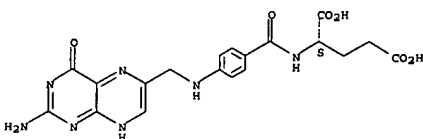
L24 ANSWER 18 OF 71 USPATFULL (Continued)
 197151-02-6P
 (pteroyl azide intermediates in prepn. of folic acid-drug conjugates)
 RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



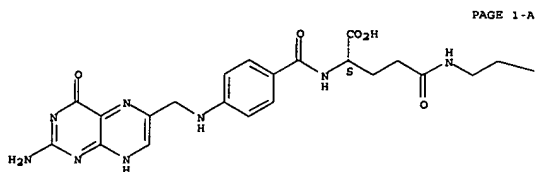
RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



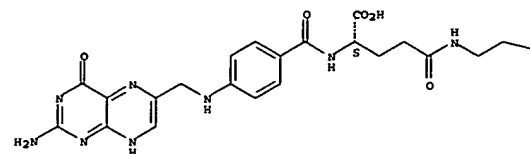
RN 197151-85-2 USPATFULL
 CN L-Glutamine, N2-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-N-(2-aminoethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

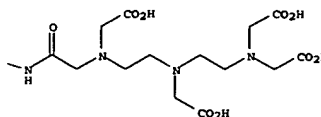


L24 ANSWER 18 OF 71 USPATFULL (Continued)

PAGE 1-A

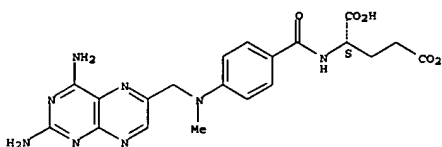


PAGE 1-B



IT 7532-09-4
 (pteroyl azide intermediates in prepn. of folic acid-drug conjugates)
 RN 7532-09-4 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-, monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Na

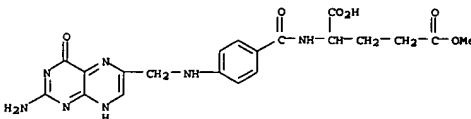
IT 59-05-2P, MTX 59-30-3P, Folic acid, preparation
 197151-85-2P 197151-86-3P 197151-97-6P

L24 ANSWER 18 OF 71 USPATFULL (Continued)

PAGE 1-B

NH₂

RN 197151-86-3 USPATFULL
 CN Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, 5-methyl ester (9CI) (CA INDEX NAME)

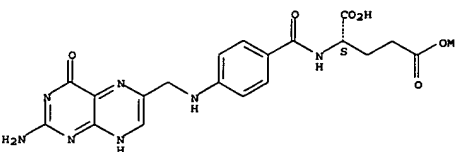


RN 197151-97-6 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, 5-methyl ester, compd. with N,N,N',N'-tetramethylguanidine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 53464-60-1
 CMF C20 H21 N7 O6
 CDES 5:L

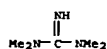
Absolute stereochemistry.



CM 2

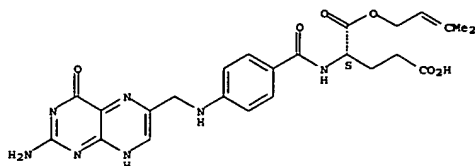
CRN 80-70-6
 CMF C5 H13 N3

L24 ANSWER 18 OF 71 USPATFULL (Continued)



RN 197152-02-6 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, 1-(3-methyl-2-butenyl) ester (9CI) (CA INDEX NAME)

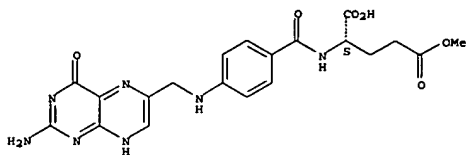
Absolute stereochemistry.



IT 53464-60-1P 65165-91-5P 65165-92-6P
 185130-29-4P 197151-90-9P 197151-91-0P
 197152-00-4P
 (pteroyl azide intermediates in prepn. of folic acid-drug conjugates)

RN 53464-60-1 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, 5-methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

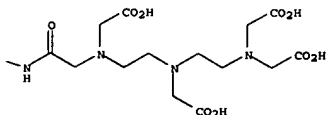


RN 65165-91-5 USPATFULL
 CN D-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

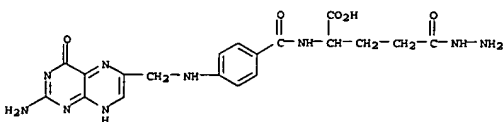
Absolute stereochemistry.

L24 ANSWER 18 OF 71 USPATFULL (Continued)

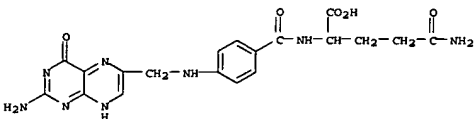
PAGE 1-B



RN 197151-90-9 USPATFULL
 CN Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, 5-hydrazide (9CI) (CA INDEX NAME)



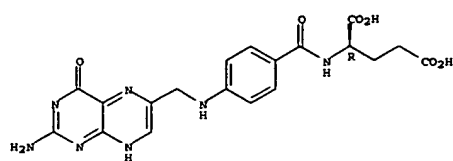
RN 197151-91-0 USPATFULL
 CN Glutamine, N2-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)



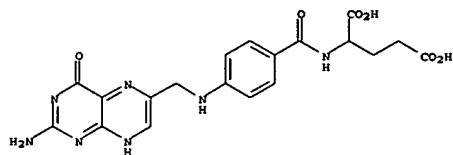
RN 197152-00-4 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, 5-(phenylmethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 18 OF 71 USPATFULL (Continued)



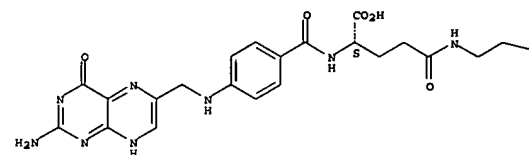
RN 65165-92-6 USPATFULL
 CN Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)



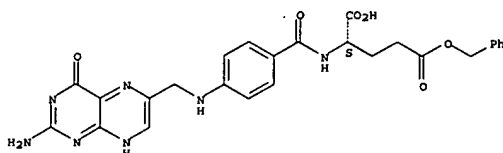
RN 185130-29-4 USPATFULL
 CN 3,6,9,12,15-Pentazaeicosanedioic acid, 19-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-3,6,9-tris(carboxymethyl)-11,16-dioxo-, (19S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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L24 ANSWER 18 OF 71 USPATFULL (Continued)



L24 ANSWER 19 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:116526 USPATFULL
 TITLE: Targeted ultrasound contrast agents
 INVENTOR(S): Klaveness, Jo, Oslo, Norway
 Rongved, P.ang I., Oslo, Norway
 L.o slashed.vhaug, Dagfinn, Oslo, Norway
 PATENT ASSIGNEE(S): Nycomed Imaging AS, Oslo, Norway (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6264917	B1	20010724
APPLICATION INFO.:	US 1997-958993		19971028 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1996-22366	19961028
	GB 1996-22367	19961028
	GB 1996-22368	19961028
	GB 1997-699	19970115
	GB 1997-6265	19970424
	GB 1997-11842	19970606
	GB 1997-11846	19970606
	US 1997-49264P	19970607 (60)
	US 1997-49268P	19970607 (60)

DOCUMENT TYPE: Utility
 FILE SEGMENT: GRANTED
 PRIMARY EXAMINER: Hartley, Michael G.
 LEGAL REPRESENTATIVE: Bacon & Thomas
 NUMBER OF CLAIMS: 17
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
 LINE COUNT: 5477
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Targetable diagnostic and/or therapeutically active agents, e.g. ultrasound contrast agents, having reporters comprising gas-filled microbubbles stabilised by monolayers of film-forming surfactants, the reporter being coupled or linked to at least one vector.

IT 195618-80-5P 207287-24-9P 350256-58-5P
 350256-60-9P
 (prepn. of diagnostic/therapeutic agents having phospholipid-based gas-filled microbubbles coupled to one or more vectors)

RN 195618-80-5 USPATFULL

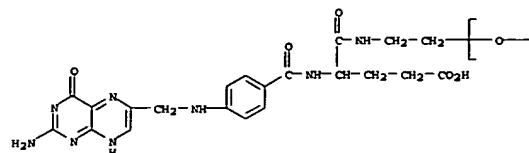
CN Poly(oxy-1,2-ethanediyl),

.alpha.-[2-[[[(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino]benzoyl]amino]-4-carboxy-1-

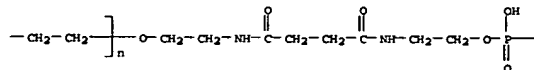
oxobutyl]amino]ethyl]-omega.-[[[12-hydroxy-12-oxido-4,7,18-trioxo-15-[[[1-oxooctadecyl]oxy]-11,13,17-trioxo-3,8-diaza-12-phosphapentatriacont-1-yl]oxy]- (9CI) (CA INDEX NAME)

L24 ANSWER 19 OF 71 USPATFULL (Continued)

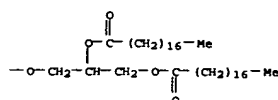
PAGE 1-A



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RN 207287-24-9 USPATFULL

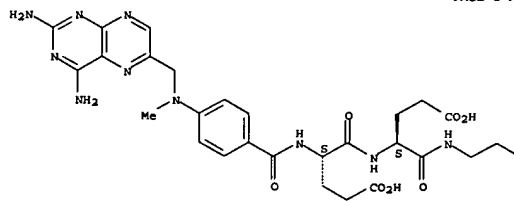
CN L-Cysteine,

N2,N6-bis[N-[[[[(2,4-diamino-6-pteridiny]methyl)methylamino]benzoyl]-L-.alpha.-glutamyl-L-.alpha.-glutamyl-.beta.-alaninyl]-L-lysyl-(9CI) (CA INDEX NAME)

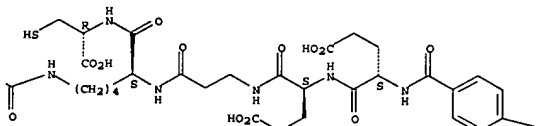
Absolute stereochemistry.

L24 ANSWER 19 OF 71 USPATFULL (Continued)

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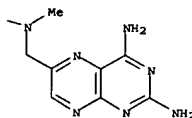


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L24 ANSWER 19 OF 71 USPATFULL (Continued)

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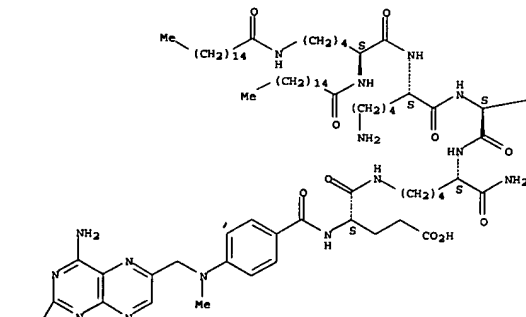


RN 350256-58-5 USPATFULL

CN L-Lysinamide, N2,N6-bis[(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-N6-[[[[(2,4-diamino-6-pteridiny]methyl)methylamino]benzoyl]-L-.alpha.-glutamyl]- (9CI) (CA INDEX NAME)

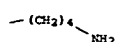
Absolute stereochemistry.

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L24 ANSWER 19 OF 71 USPATFULL (Continued)

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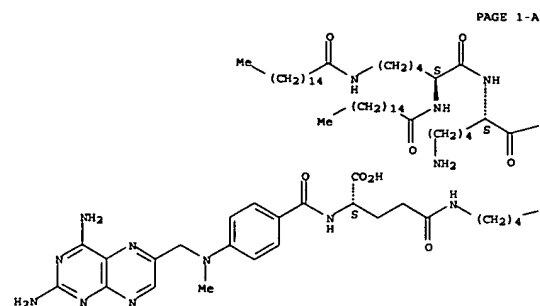


PAGE 2-A



RN 350256-60-9 USPATFULL
 CN L-Lysinamide, N2,N6-bis(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-N6-[N-4-[[[(2,4-diamino-6-pteridiny]methyl)methylamino]benzoyl]-L-gamma.-glutamyl]- (9CI) (CA INDEX NAME)

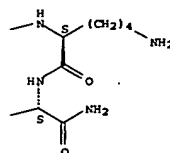
Absolute stereochemistry.



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L24 ANSWER 19 OF 71 USPATFULL (Continued)

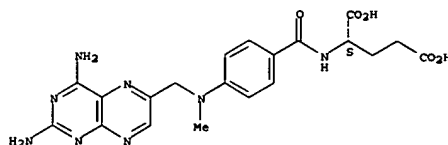
PAGE 1-B



IT 59-05-2, Methotrexate
 (prepn. of diagnostic/therapeutic agents having phospholipid-based gas-filled microbubbles coupled to one or more vectors)

RN 59-05-2 USPATFULL
 CN L-Glutamic acid, N-4-[[[(2,4-diamino-6-pteridiny]methyl)methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 20 OF 71 USPATFULL

ACCESSION NUMBER: 1001.111808 USPATFULL
 TITLE: Diagnostic/therapeutic agents having microbubbles coupled to one or more vectors

INVENTOR(S): Klaveness, Jo, Oslo, Norway
 Rongved, P.ang.1, Oslo, Norway
 H.o slashed.gset, Anders, Oslo, Norway
 Tolleshaug, Helge, Oslo, Norway
 N.ae buttet.vestad, Anne, Oslo, Norway
 Hellebust, Hallidis, Oslo, Norway
 Hoff, Lars, Oslo, Norway
 Cuthbertson, Alan, Oslo, Norway
 L.o slashed.vhaug, Dagfinn, Oslo, Norway
 Solbakken, Magne, Oslo, Norway

PATENT ASSIGNEE(S): Nycomed Imaging AS, Oslo, Norway (non-U.S. corporation)

NUMBER	KIND	DATE
US 6261537	B1	20010717
US 1997-960054		19971029 (B)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-958993, filed on 28 Oct 1997	

NUMBER	DATE
GB 1996-22366	19961028
GB 1996-22367	19961028
GB 1996-22368	19961028
GB 1997-699	19970115
GB 1997-8265	19970424
GB 1997-11842	19970606
GB 1997-11846	19970606
US 1997-49264P	19970607 (60)
US 1997-49265P	19970607 (60)
US 1997-49268P	19970607 (60)

DOCUMENT TYPE: Utility
 FILE SEGMENT: GRANTED
 PRIMARY EXAMINER: Hartley, Michael G.
 LEGAL REPRESENTATIVE: Bacon & Thomas, Fichter, Richard E.
 NUMBER OF CLAIMS: 22
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
 LINE COUNT: 5614

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Targetable diagnostic and/or therapeutically active agents, e.g. ultrasound contrast agents, having reporters comprising gas-filled microbubbles stabilised by monolayers of film-forming surfactants, the reporter being coupled or linked to at least one vector.

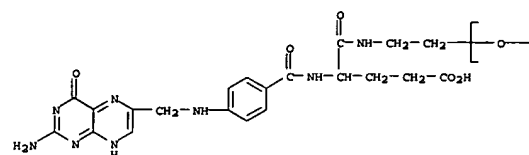
IT 195618-80-5P 207287-24-9P 350256-58-5P
 350256-60-9P
 (prepn. of diagnostic/therapeutic agents having phospholipid-based gas-filled microbubbles coupled to one or more vectors)

RN 195618-80-5 USPATFULL
 CN Poly(oxy-1,2-ethanediyl),

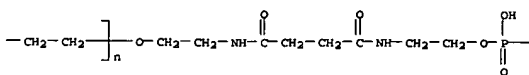
.alpha.-[2-[[[2S]-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]ethyl]-.omega.-[[[12-hydroxy-12-oxido-4,7,18-trioxo-15-[[[1-oxooctadecyl]oxy]-11,13,17-trioxo-3,8-diaza-12-phosphapentatriacont-1-yl]oxy]- (9CI) (CA INDEX NAME)

L24 ANSWER 20 OF 71 USPATFULL (Continued)

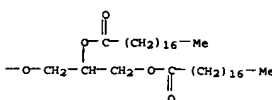
PAGE 1-A



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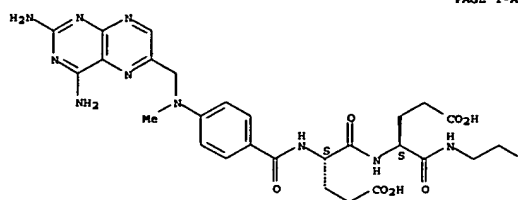
RN 207287-24-9 USPATFULL

CN L-Cysteine, N2,N6-bis[N-4-[[[(2,4-diamino-6-pteridiny]methyl)methylamino]benzoyl]-L-.alpha.-glutamyl-L-.alpha.-glutamyl-.beta.-alaninyl]-L-lysyl- (9CI) (CA INDEX NAME)

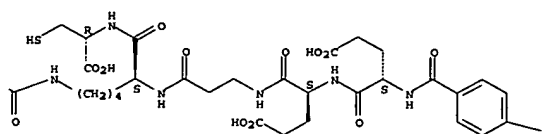
Absolute stereochemistry.

L24 ANSWER 20 OF 71 USPATFULL (Continued)

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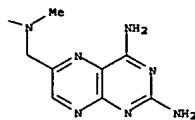


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L24 ANSWER 20 OF 71 USPATFULL (Continued)

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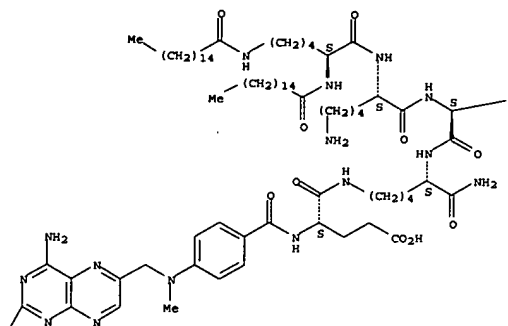
RN 350256-58-5 USPATFULL

CN L-Lysineamide, N2,N6-bis(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-N6-[N-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]- (9CI) (CA INDEX NAME)

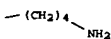
Absolute stereochemistry.

L24 ANSWER 20 OF 71 USPATFULL (Continued)

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H2N

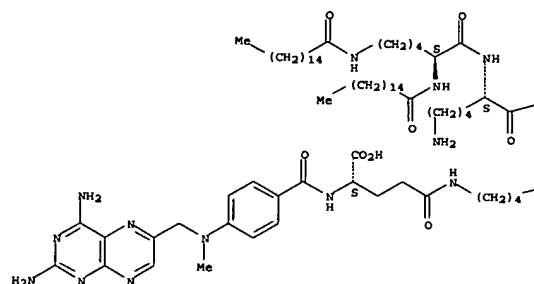
RN 350256-60-9 USPATFULL

CN L-Lysineamide, N2,N6-bis(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-N6-[N-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.gamma.-glutamyl]- (9CI) (CA INDEX NAME)

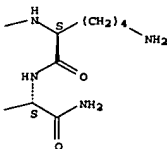
Absolute stereochemistry.

L24 ANSWER 20 OF 71 USPATFULL (Continued)

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IT 59-05-2, Methotrexate

(prepn. of diagnostic/therapeutic agents having phospholipid-based gas-filled microbubbles coupled to one or more vectors)

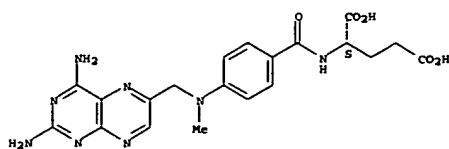
RN 59-05-2 USPATFULL

CN L-Glutamic acid,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 20 OF 71 USPATFULL (Continued)



L24 ANSWER 21 OF 71 USPATFULL

ACCESSION NUMBER: 2001:59359 USPATFULL
 TITLE: Metal complexes derivatized with folate for use in diagnostic and therapeutic applications
 INVENTOR(S): Wedeking, Paul W., Pennington, NJ, United States
 Wager, Ruth E., Rockville, MD, United States
 Arunachalam, Thangavel, Plainsboro, NJ, United States
 Ramalingam, Kondareddiar, Dayton, NJ, United States
 Linder, Karen E., Kingston, NJ, United States
 Ranganathan, Ramachandran S., Princeton, NJ, United States
 Nunn, Adrian D., Lambertville, NJ, United States
 Raju, Matarsjan, Kendall Park, NJ, United States
 Tweedle, Michael F., Princeton, NJ, United States
 PATENT ASSIGNEE(S): Bracco Research USA, Inc., Princeton, NJ, United States
 (U.S. corporation)

NUMBER	KIND	DATE
US 6221334	B1	20010424
US 2000-477072		20000103 (9)
Division of Ser. No. US 1998-80157, filed on 16 May 1998, now patented, Pat. No. US 6093382		
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Jones, Dameron L.	
LEGAL REPRESENTATIVE:	Balogh, Imre	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	31 Drawing Figure(s); 31 Drawing Page(s)	
LINE COUNT:	1407	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Diagnostic and therapeutic compositions in the form of complexes for enhancing transmembrane transport of a diagnostic or therapeutic agent and methods for their use. The complexes contain the .alpha., .gamma., or bis isomers of folate receptor-binding analogs of folate, a metal chelated by a ligand, and in one embodiment, a chemotherapeutic agent.

IT 251084-37-4P 251084-40-9P 251084-43-2P
 251084-49-8P 251084-50-1P 251084-51-2P
 (prepn. and reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)

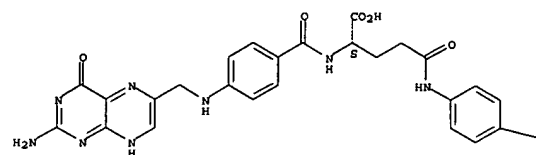
RN 251084-37-4 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[[4-[[[4S]-4-

[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

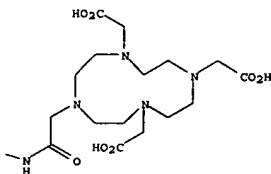
Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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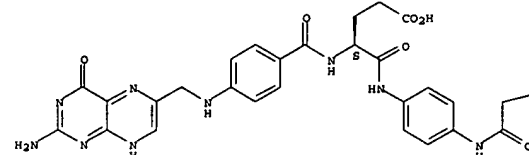
RN 251084-40-9 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[[4-[[[2S]-2-

[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

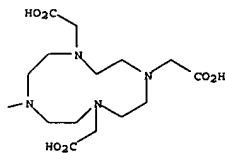
Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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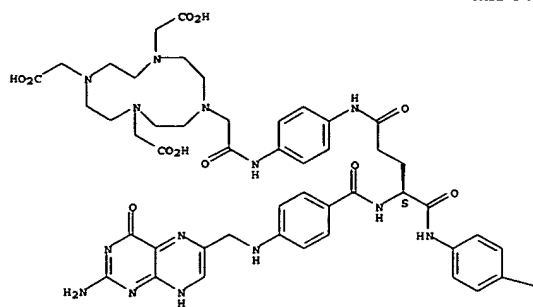


RN 251084-43-2 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[[2S]-2-[[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediy]bis[imino-4,1-phenyleneimino(2-oxo-2,1-ethanediy)]]]bis- (9CI) (CA INDEX NAME)

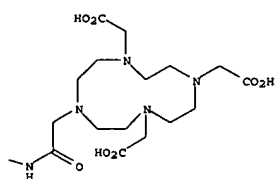
Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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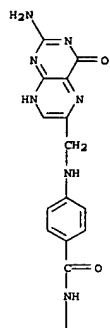
PAGE 1-B



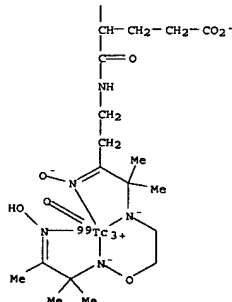
RN 251084-49-8 USPATFULL
 CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
 15-[[4-[[[(2-amino-1,4-dihydro-4-

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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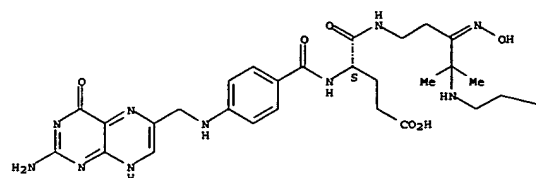


RN 251084-51-2 USPATFULL
 CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
 17-[[4-[[[(2-amino-1,4-dihydro-4-
 oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-

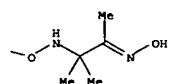
L24 ANSWER 21 OF 71 USPATFULL (Continued)
 oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-
 3,3,9,9-tetramethyl-14-oxo-, (15S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

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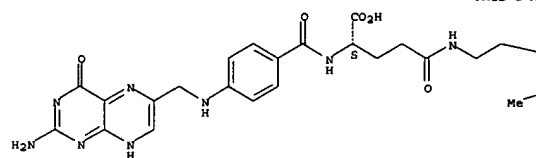


RN 251084-50-1 USPATFULL
 CN Technetate(1-)-99Tc, {[(4S)-4-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-
 pteridinyl)methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino-.kappa.N)-
 10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-
 hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

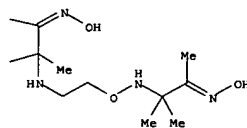
L24 ANSWER 21 OF 71 USPATFULL (Continued)
 3,3,9,9-tetramethyl-14-oxo-, (17S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

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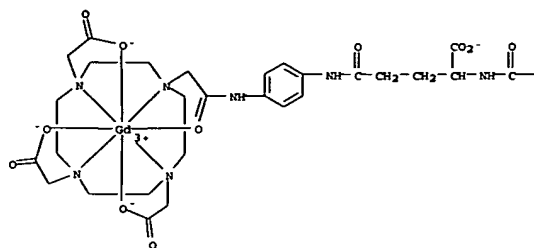
PAGE 1-B



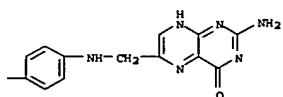
IT 251084-38-5P 251084-39-6P 251084-41-0P
 251084-42-1P 251084-44-3P 251084-45-4P
 251084-52-3P
 (prepn. for use in diagnostic and therapeutic applications)
 RN 251084-38-5 USPATFULL
 CN Gadolinate(1-), [10-[[2-[[4-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-
 pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-
 oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-
 tetraazacyclododecane-1,4,7-trisacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
 .kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX
 NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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 $\bullet \text{Na}^+$

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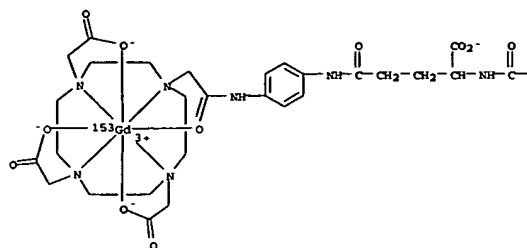
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RN      251084-39-6 USPANTFULL
CN      Gadolinium(1-)-tris[2,10-[[2-[[4-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-
        pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-
        oxobutyl]amino]phenyl]amino]-2-(oxo-[(kappa.O)ethyl]-1,4,7,10-
        tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
        .kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) {CA INDEX
        NAME}

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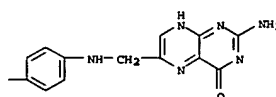
124 ANSWER 21 OF 71 USPATFULL (Continued)

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● Na^+

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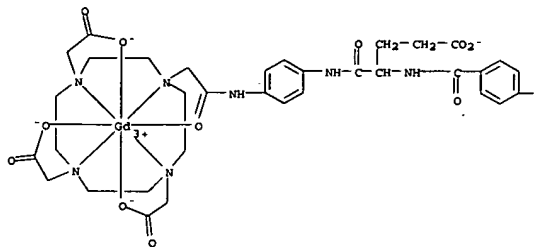
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RN      251084-41-0 USP2ATFULL
CN      Gadolinate(1-), [10]-[2]-[4]-[2]-[4]-[2]-[2-amino-1,4-dihydro-4-oxo-6-
        pteridinyl]methyl]amino]benzoyl]amino]-4-carboxy-1-
        oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-
        tetraazacyclododecane-1,4,7-triacetate(4-)-.kappa.N1,.kappa.N4,.kappa.N7
        -.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX
        NAME)

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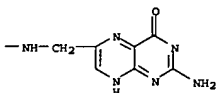
L24 ANSWER 21 OF 71 USPATFULL (Continued)

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● № 4

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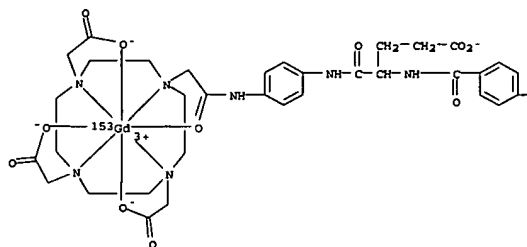
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RN      251084-42-1 USP4TFULL
CN      Gadolinium(1+)-15SDG, [10-[2-{[4-{[2-{[4-{[2-amino-1,4-dihydro-4-oxo-6-
        pteridinyl)methyl]amino]benzoyl}amino]-4-carboxy-1-
        oxobutyl]amino]phenyl]amino]-2-(oxo- $\kappa$ .Kappa.O)ethyl]-1,4,7,10-
        tetraazacyclododecane-1,4,7-trisacetato(4-)- $\kappa$ .Kappa.N1, $\kappa$ .Kappa.N4, $\kappa$ .Kappa.N7
        , $\kappa$ .Kappa.N10, $\kappa$ .Kappa.O1, $\kappa$ .Kappa.O4, $\kappa$ .Kappa.O7]-, sodium (9CI) [CA INDEX
        NAME]

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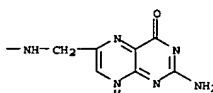
L24 ANSWER 21 OF 71 USPATFULL (Continued)

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● **Not**

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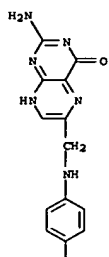
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RN      251084-44-3  USPATPULL
CN      Gadolinium, [mu.-[10,10'-[[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-
        pteridinyl]ethyl]amino]benzoyl]amino]-1,5-dioxo-1,5-
        penandriyl]amino]-4,1-phenyleneimino[2-(oxo-kappa.O)-2,1-
        ethanediy]]bis[1,4,7,10-tetrakispyrrolodecane-1,7-triacetato-
        .kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]]
        (6-1)]di- (9C1) (CA INDEX NAME)

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L24 ANSWER 21 OF 71 USPATFULL (Continued)

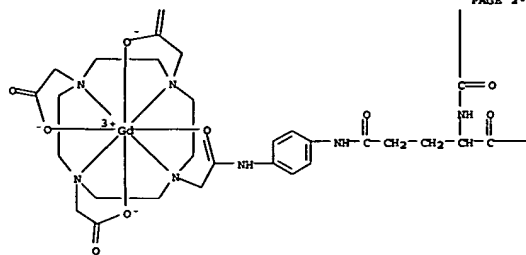
PAGE 1-A



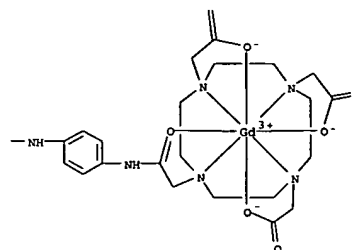
PAGE 1-B

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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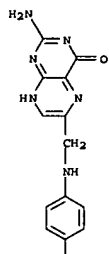
PAGE 2-B



RN 251084-45-4 USPATFULL
 CN Gadolinium-153Gd, [.mu. - [[10,10'-[[2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanedyl]bis[imino-4,1-phenyleneimino(2-(oxo-kappa.O)-2,1-ethanediyl)]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]](6-)]]]di- (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

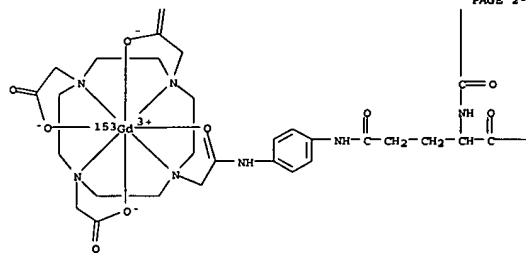
PAGE 1-A



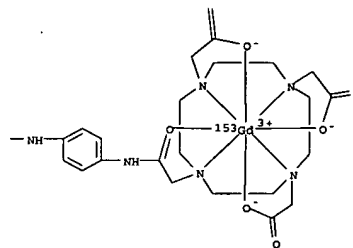
PAGE 1-B

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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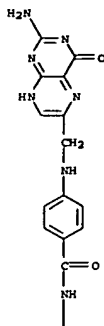
PAGE 2-B



RN 251084-52-3 USPATFULL
 CN Technetate(1-)-99Tc, [(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino-kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

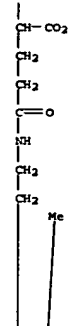
L24 ANSWER 21 OF 71 USPATFULL (Continued)

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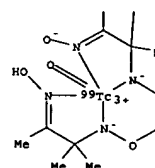


L24 ANSWER 21 OF 71 USPATFULL (Continued)

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PAGE 3-A

● H⁺

IT 251084-56-7P 251084-60-3P 251084-64-7P

251084-76-1P 251084-80-7P

(reactant for prepn. of metal complexes for use in diagnostic and

therapeutic applications)

RN 251084-56-7 USPATFULL

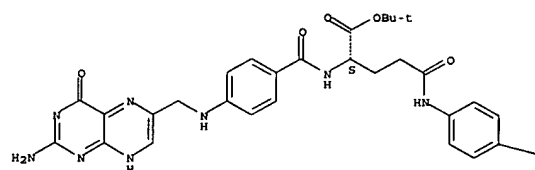
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(2S)-2-

L24 ANSWER 21 OF 71 USPATFULL (Continued)

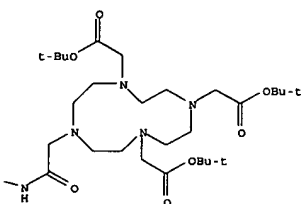
[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino
]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-
tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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RN 251084-60-3 USPATFULL

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(2S)-2-

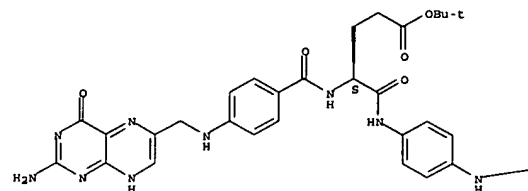
[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino

]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-
tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

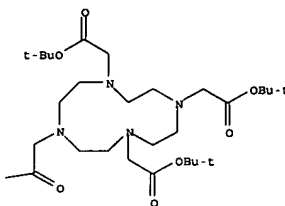
Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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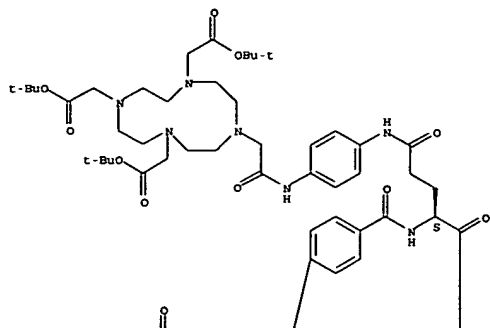
RN 251084-64-7 USPATFULL

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[[(2S)-2-[[4-
[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-
1,5-dioxo-1,5-pentenediyl]]bis[imino-4,1-phenyleneimino(2-oxo-2,1-
ethanediyl)]]bis-, hexakis(1,1-dimethylethyl) ester (9CI) (CA INDEX
NAME)

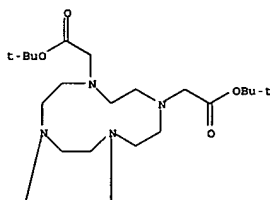
Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL (Continued)

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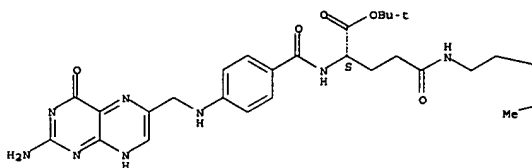


L24 ANSWER 21 OF 71 USPATFULL (Continued)

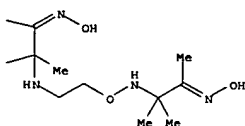
CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
17-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (17S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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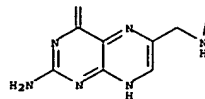


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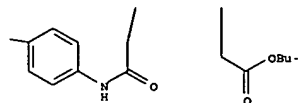


L24 ANSWER 21 OF 71 USPATFULL (Continued)

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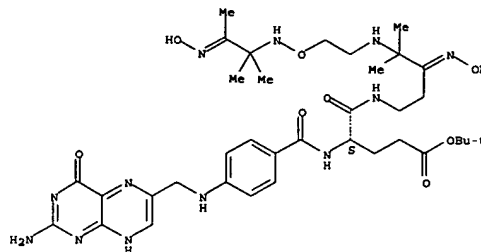
PAGE 2-B



RN 251084-76-1 USPATFULL

CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
15-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (15S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 251084-80-7 USPATFULL

L24 ANSWER 22 OF 71 USPATFULL

ACCESSION NUMBER: 2001:55490 USPATFULL
TITLE: Polyester analogue of poly-L-lysine as a soluble, biodegradable gene delivery carrier
INVENTOR(S): Park, Jong Sang, Seoul, Korea, Republic of
Choi, Young Hun, Seoul, Korea, Republic of
Kim, Sung Wan, Salt Lake City, UT, United States
PATENT ASSIGNEE(S): Expression Genetics, Inc., Salt Lake City, UT, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6217912	B1	20010417
APPLICATION INFO.:	US 1999-352473		19990713 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-92682P	19980713 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Brusca, John S.	
ASSISTANT EXAMINER:	Shibuya, Mark L.	
LEGAL REPRESENTATIVE:	Thorpe North & Western, LLP	
NUMBER OF CLAIMS:	41	
EXEMPLARY CLAIMS:	1	
NUMBER OF DRAWINGS:	22 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	841	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

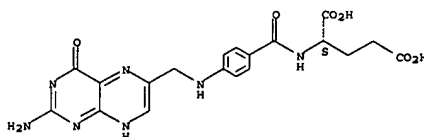
AB Poly[alpha-(4-aminobutyl)-L-glycolic acid] (PAGA) is disclosed as a biodegradable composition suitable for delivering a gene into a cell. Methods of making and using PAGA are also disclosed.

IT 59-30-3, Folic acid, biological studies
(targeting of; polyester analog of poly-L-lysine as a sol., biodegradable gene delivery carrier)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 23 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:43748 USPATFULL
 TITLE: Dosage forms for the treatment of the chronic
 glaucomas
 INVENTOR(S): Richardson, Kenneth T., Anchorage, AK, United States
 Pearson, Don C., Lakewood, WA, United States
 PATENT ASSIGNEE(S): ChronoRX, LLC, Anchorage, AK, United States (U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6207190	B1	20010327
APPLICATION INFO.:	US 1999-372362		19990811 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-96658P	19980813 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Spear, James M.	
LEGAL REPRESENTATIVE:	Townsend and Townsend and Crew LLP	
NUMBER OF CLAIMS:	56	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1808	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Four interdependent functional groups of biofactors and biomolecules are

identified and formulations are defined which are comprised of their members. The active agents are demonstrated to be complementary in

their physiological functions especially as these relate to endothelial biochemistry and physiology, hyperinsulinemia and, ultimately, to vascular health. The active components of the invention are selected

for inclusion in precise combinations that reduce a variety of risks of vasculopathy in addition to reducing intraocular pressure. Widespread systemic improvement associated with local, optic nerve betterment of vascular health, reduces the risk of optic nerve atrophy with its accompanying visual field loss and potential blindness. The reduction

of this maximizes the potential clinical therapeutic success of current medical, IOP-lowering, anti-glaucoma medications.

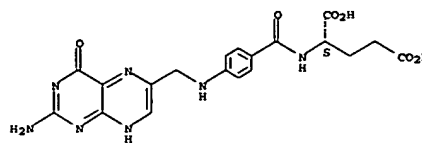
IT 59-30-3, Folic acid, biological studies
 (oral dosage forms contg. amino acids, trace elements and vitamins for treatment of chronic glaucoma)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 23 OF 71 USPATFULL (Continued)



L24 ANSWER 24 OF 71 USPATFULL
 ACCESSION NUMBER: 2001:43711 USPATFULL
 TITLE: Antigen binding fragments that specifically detect cancer cells, nucleotides encoding the fragments, and use thereof for the prophylaxis and detection of cancers

INVENTOR(S): Dan, Michael D., Scarborough, Canada
 Maiti, Pradip K., Winnipeg, Canada
 Kaplan, Howard A., Winnipeg, Canada

PATENT ASSIGNEE(S): Viventia Biotech, Inc., Toronto, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6207153	B1	20010327
APPLICATION INFO.:	US 1997-862124		19970522 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-657449, filed on 22 May 1996, now abandoned		

	NUMBER	DATE
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Bansal, Geetha P.	
LEGAL REPRESENTATIVE:	Frommer Lawrence & Haug LLP	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 14 Drawing Page(s)	
LINE COUNT:	3359	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to monoclonal antibody H11 and antigen binding fragments that specifically bind to the antigen recognized by H11, the C-antigen. The C-antigen is found specifically on neoplastic cells and not on normal cells. Also disclosed are polynucleotide and polypeptide derivatives based on H11, including single chain V region molecules and fusion proteins, and various pharmaceutical compositions. When administered to an individual, the H11 antibody is effective in diagnosing, localizing, and/or treating neoplasias. The invention further provides methods for treating a neoplastic disease,

particularly melanoma, neuroblastoma, glioma, soft tissue sarcoma, and small cell lung carcinoma. Patients who are in remission as a result of traditional

modes of cancer therapy may be treated with a composition of this invention in hopes of reducing the risk of recurrence. Patients may also

be treated concurrently with the antibodies and traditional anti-neoplastic agents.

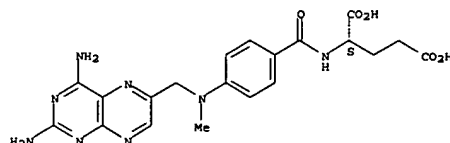
IT 59-05-2D, Methotrexate, conjugates
 (with antibody constructs targeting C-antigen of tumors)

RN 59-05-2 USPATFULL

CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridiny)]methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 24 OF 71 USPATFULL (Continued)



L24 ANSWER 25 OF 71 USPATFULL
 ACCESSION NUMBER: 2000:164081 USPATFULL
 TITLE: Tissue factor methods and compositions for coagulation and tumor treatment
 INVENTOR(S): Thorpe, Philip S., Dallas, TX, United States
 King, Steven W., Foothill Ranch, CA, United States
 Gao, Bojing, Dallas, TX, United States
 PATENT ASSIGNEE(S): Board Of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6156321		20001205
APPLICATION INFO.:	US 1998-9822		19980120 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-42427P	19970327 (60)
	US 1997-36205P	19970127 (60)
	US 1997-35920P	19970122 (60)

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Bansal, Geetha P.
 LEGAL REPRESENTATIVE: Williams, Morgan and Amerson
 NUMBER OF CLAIMS: 47
 EXEMPLARY CLAIM: 1,3
 NUMBER OF DRAWINGS: 25 Drawing Figure(s); 15 Drawing Page(s)
 LINE COUNT: 7500

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention embodies the surprising discovery that Tissue Factor (TF) compositions and variants thereof specifically localize to the blood vessels within a vascularized tumor following systemic administration. The invention therefore provides methods and compositions comprising coagulant-deficient Tissue Factor for use in effecting specific coagulation and for use in tumor treatment. The TF compositions and methods of present invention may be used alone, as TF conjugates with improved half-life, or in combination with other agents, such as conventional chemotherapeutic drugs, targeted immunotoxins, targeted coagulgigands, and/or in combination with Factor VIIa (FVIIa) or FVIIa activators.

IT 59-05-2, Methotrexate
 (tissue factor methods and compns. for targeted coagulation and tumor treatment)

RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL
 ACCESSION NUMBER: 2000:166146 USPATFULL
 TITLE: Cell-targeting molecule comprising a mutant human carboxypeptidase A
 INVENTOR(S): Smith, Gary Keith, Raleigh, NC, United States
 Blumenkopf, Todd Andrew, Old Lyme, CT, United States
 Cory, Michael, Chapel Hill, NC, United States
 PATENT ASSIGNEE(S): Glaxo Wellcome Inc., Research Triangle Park, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6140100		20001031
	WO 9513095		19950518
APPLICATION INFO.:	US 1996-640906		19960509 (8)
	WO 1994-GB2483		19941111
			19960509 PCT 371 date
			19960509 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1993-23429	19931112

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Achutamurthy, Ponnathapura
 ASSISTANT EXAMINER: Moore, William W.
 LEGAL REPRESENTATIVE: Grassler, Frank P., Bennett, Virginia C., Mrubiec, Robert T.
 NUMBER OF CLAIMS: 12
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 7 Drawing Figure(s); 5 Drawing Page(s)
 LINE COUNT: 7473

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates of a cell targeting molecule and a mutant human carboxypeptidase A enzyme are provided. Suitable targeting molecules include antibodies, hormones, ligands, cytokines, antigens, oligonucleotides and peptidomimetics. Enzymes comprising a mutant human carboxypeptidase A enzyme are also provided.

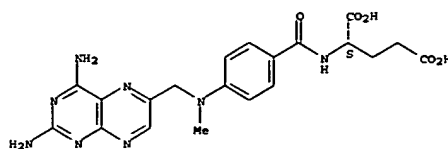
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 167550-27-8P 167550-54-1P 167550-61-0P
 167550-81-4P 167550-86-9P 167550-98-3P
 167551-08-8P

(Improvement of antibody-directed enzyme prodrug therapy (ADEPT))

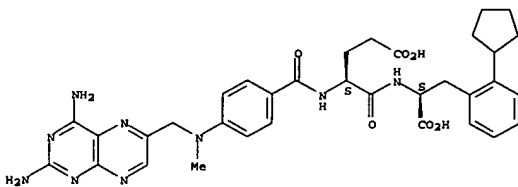
RN 167549-87-3 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]-L-.alpha.-glutamyl-2-cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 25 OF 71 USPATFULL (Continued)



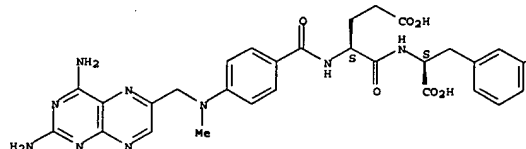
L24 ANSWER 26 OF 71 USPATFULL (Continued)



RN 167549-96-4 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]-L-.alpha.-glutamyl-3-cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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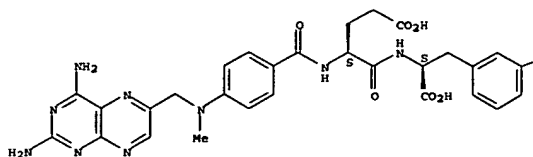
PAGE 1-B

RN 167550-14-3 USPATFULL
 CN L-Phenylalanine,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]-L-.alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

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Bu-t

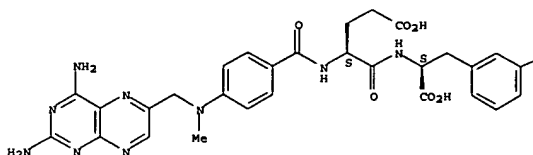
RN 167550-27-8 USPATFULL

CN L-Phenylalanine,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-cyclobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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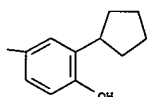


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L24 ANSWER 26 OF 71 USPATFULL (Continued)

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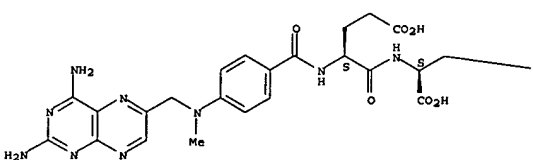
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CN L-Tyrosine,

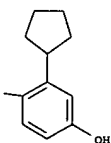
N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-2-cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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RN 167550-86-9 USPATFULL

CN L-Tyrosine,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3,5-diiodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

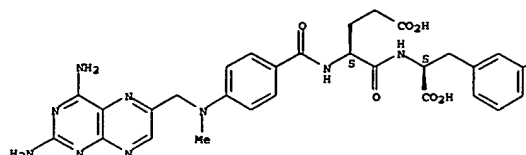
RN 167550-54-1 USPATFULL

CN L-Phenylalanine,

N-[N-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(trimethylsilyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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SiMe3

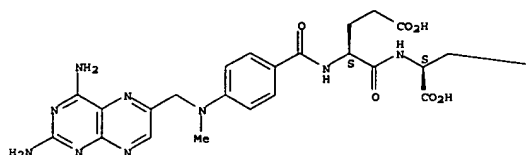
RN 167550-61-0 USPATFULL

CN L-Tyrosine,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-cyclopentyl]- (9CI) (CA INDEX NAME)

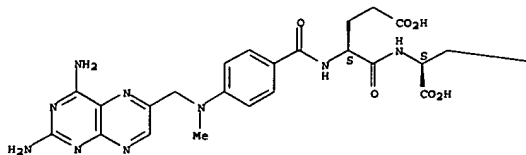
Absolute stereochemistry.

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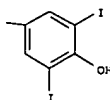


L24 ANSWER 26 OF 71 USPATFULL (Continued)

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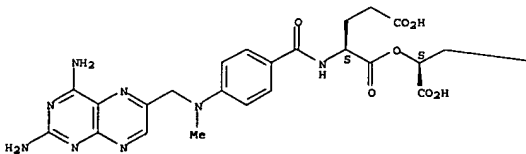
RN 167550-98-3 USPATFULL

CN L-Glutamic acid,

N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-1-[1-carboxy-2-(3-cyclopentyl-4-hydroxyphenyl)ethyl] ester, (S)- (9CI) (CA INDEX NAME)

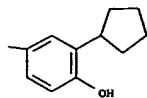
Absolute stereochemistry.

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L24 ANSWER 26 OF 71 USPATFULL (Continued)

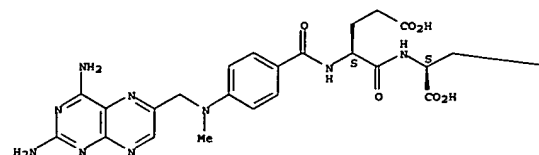
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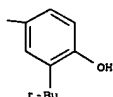
RN 167551-08-8 USPATFULL
CN L-Tyrosine,
N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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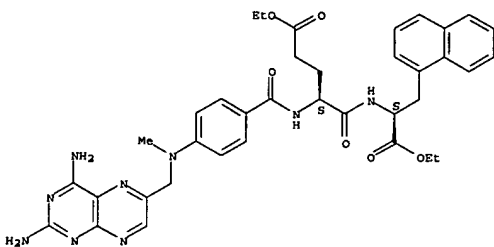
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IT 71074-48-1P 118355-51-4P 167549-40-8P
167549-42-0P 167549-49-7P 167549-50-0P
167549-54-4P 167549-57-7P 167549-66-8P
167549-67-9P 167549-75-9P 167549-76-0P
167549-86-2P 167549-95-3P 167550-05-2P
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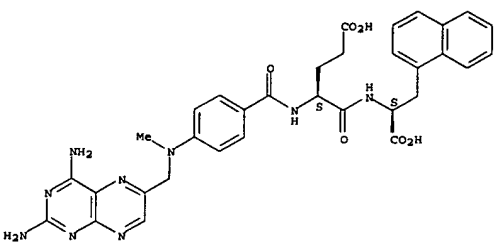
L24 ANSWER 26 OF 71 USPATFULL (Continued)

Absolute stereochemistry.



RN 167549-42-0 USPATFULL
CN L-Alanine,
N-[N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-(1-naphthalenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

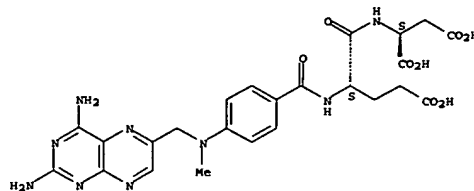


RN 167549-49-7 USPATFULL
CN L-Phenylalanine,
N-[N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-2-(methoxycarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

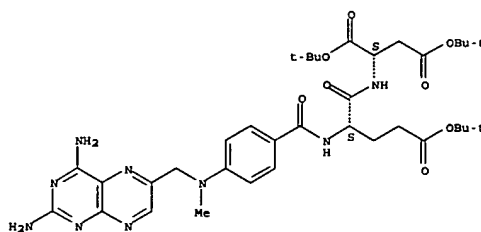
L24 ANSWER 26 OF 71 USPATFULL (Continued)
167550-85-8P 167550-97-2P 167551-07-7P
(improvement of antibody-directed enzyme prodrug therapy (ADEPT))
RN 71074-48-1 USPATFULL
CN L-Aspartic acid,
N-[N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 118355-51-4 USPATFULL
CN L-Aspartic acid,
N-[N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

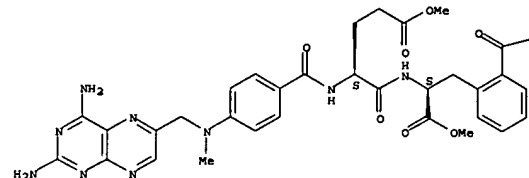
Absolute stereochemistry.



RN 167549-40-8 USPATFULL
CN L-Alanine,
N-[N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-(1-naphthalenyl)-, diethyl ester (9CI) (CA INDEX NAME)

L24 ANSWER 26 OF 71 USPATFULL (Continued)

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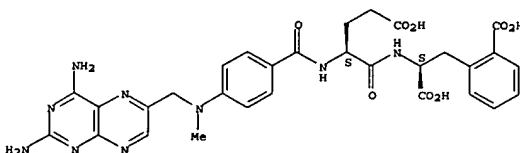


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-OMe

RN 167549-50-0 USPATFULL
CN L-Phenylalanine,
N-[N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-2-carboxy- (9CI) (CA INDEX NAME)

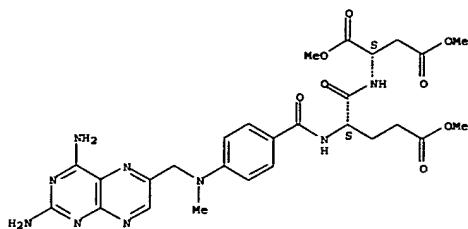
Absolute stereochemistry.



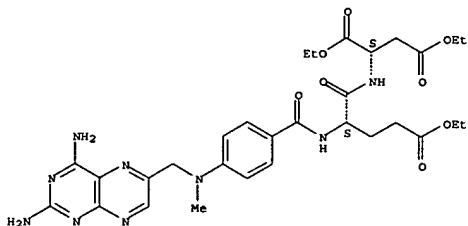
RN 167549-54-4 USPATFULL
CN L-Aspartic acid,
N-[N-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-2-carboxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

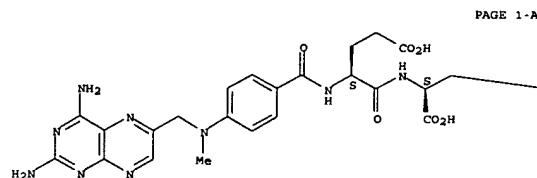


RN 167549-57-7 USPATFULL
 CN L-Aspartic acid,
 N-[N-[[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-.triethyl ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



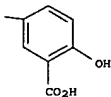
RN 167549-66-8 USPATFULL
 CN L-Tyrosine,
 N-[N-[[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-((1,1-dimethylethoxy)carbonyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

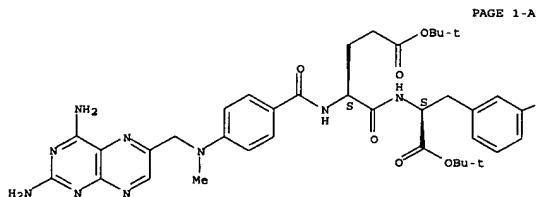


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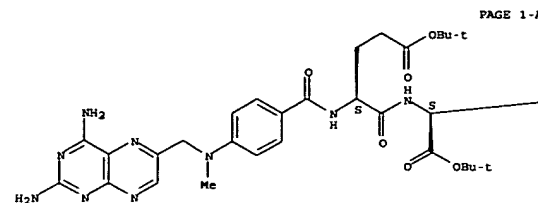


RN 167549-75-9 USPATFULL
 CN L-Phenylalanine,
 N-[N-[[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-(methoxycarbonyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



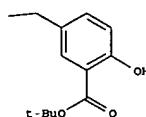
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L24 ANSWER 26 OF 71 USPATFULL (Continued)



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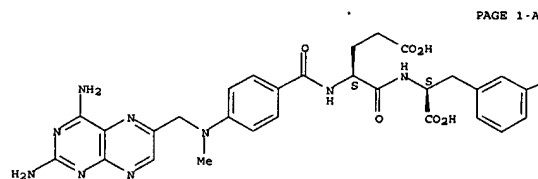
RN 167549-67-9 USPATFULL
 CN L-Tyrosine,
 N-[N-[[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-carboxy- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

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RN 167549-76-0 USPATFULL
 CN L-Phenylalanine,
 N-[N-[[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-3-carboxy- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



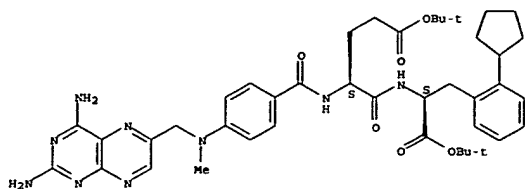
PAGE 1-A

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CO₂H

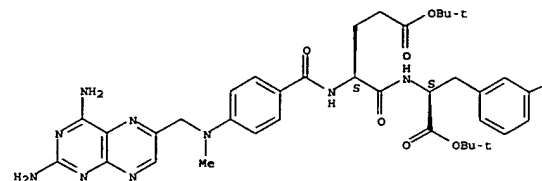
RN 167549-86-2 USPATFULL
 CN L-Phenylalanine, 2-cyclopentyl-N-[N-[[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)



RN 167549-95-3 USPATFULL
 CN L-Phenylalanine, 3-cyclopentyl-N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

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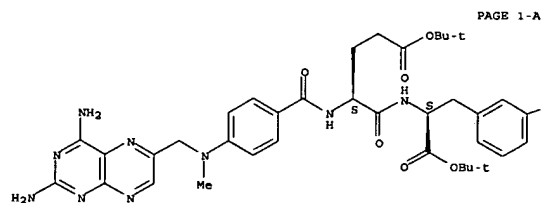


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RN 167550-05-2 USPATFULL
 CN L-Phenylalanine, 2-cyclohexyl-N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

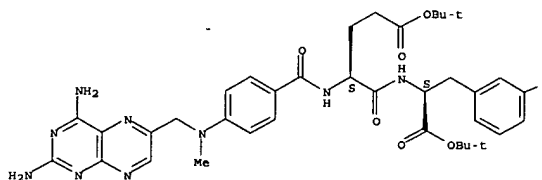


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Bu-t

RN 167550-26-7 USPATFULL
 CN L-Phenylalanine, 3-cyclobutyl-N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

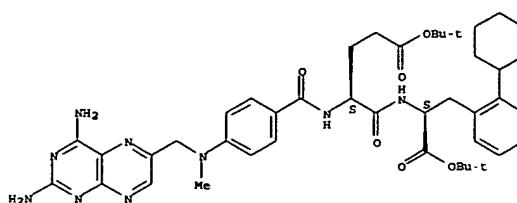
PAGE 1-A



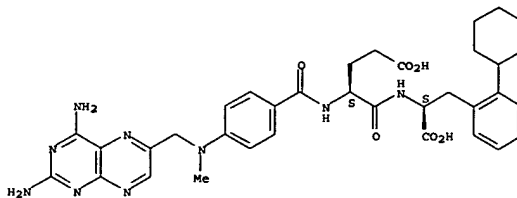
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L24 ANSWER 26 OF 71 USPATFULL (Continued)



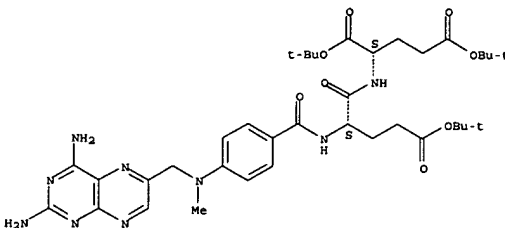
RN 167550-06-3 USPATFULL
 CN L-Phenylalanine, N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl-2-cyclohexyl- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



RN 167550-13-2 USPATFULL
 CN L-Phenylalanine, N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(1,1-dimethylethyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

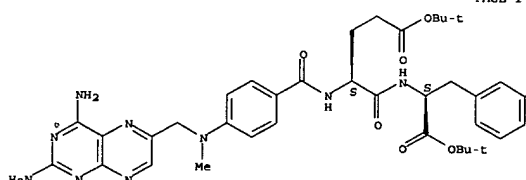
L24 ANSWER 26 OF 71 USPATFULL (Continued)

RN 167550-35-8 USPATFULL
 CN L-Glutamic acid, N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



RN 167550-53-0 USPATFULL
 CN L-Phenylalanine, N-[N-4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(trimethylsilyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

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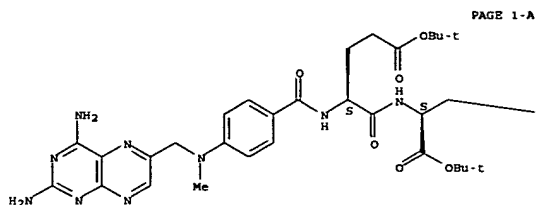


PAGE 1-B

SiMe3

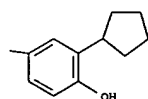
L24 ANSWER 26 OF 71 USPATFULL (Continued)
 RN 167550-60-9 USPATFULL
 CN L-Tyrosine, 3-cyclopentyl-N-[N-(4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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RN 167550-71-2 USPATFULL
 CN L-Phenylalanine,
 N-[N-(4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(1-ethylpropyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

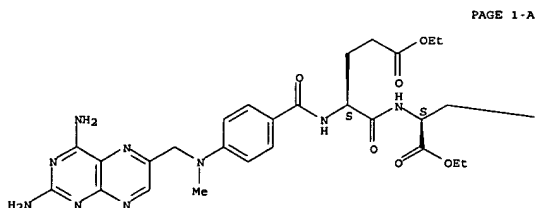
L24 ANSWER 26 OF 71 USPATFULL (Continued)

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CHET₂

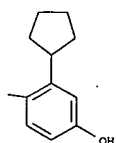
RN 167550-80-3 USPATFULL
 CN L-Tyrosine, 2-cyclopentyl-N-[N-(4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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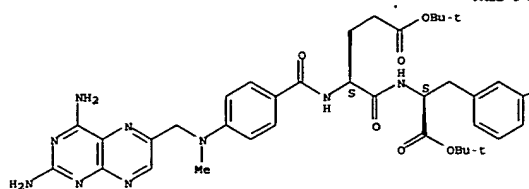


RN 167550-85-8 USPATFULL
 CN L-Tyrosine,
 N-[N-(4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3,5-diiodo-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

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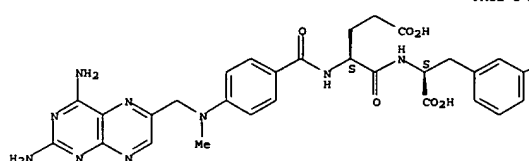
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CHET₂

RN 167550-72-3 USPATFULL
 CN L-Phenylalanine,
 N-[N-(4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-3-(1-ethylpropyl)- (9CI) (CA INDEX NAME)

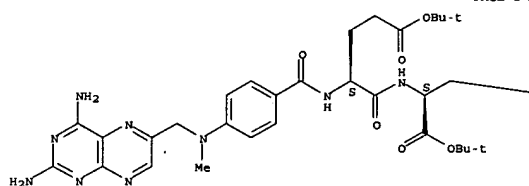
Absolute stereochemistry.

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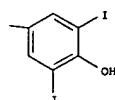


L24 ANSWER 26 OF 71 USPATFULL (Continued)

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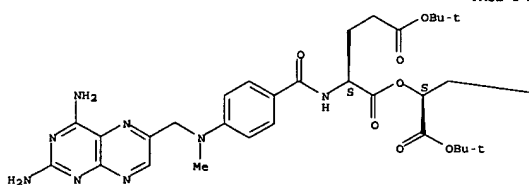
PAGE 1-B



RN 167550-97-2 USPATFULL
 CN L-Glutamic acid,
 N-(4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzoyl]-1-(1-[(3-cyclopentyl-4-hydroxyphenyl)methyl]-2-(1,1-dimethylethoxy)-2-oxoethyl] 5-(1,1-dimethylethyl) ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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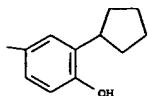


L24 ANSWER 26 OF 71 USPATFULL (Continued)

L24 ANSWER 26 OF 71 USPATFULL (Continued)

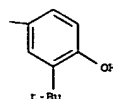
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RN 167551-07-7 USPATFULL
 CN L-Tyrosine.
 N-[N-(4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl
 j-L-.alpha.-glutamyl]-3-[(1,1-dimethylethyl)-, bis(1,1-dimethylethyl)
 ester (9CI) (CA INDEX NAME)

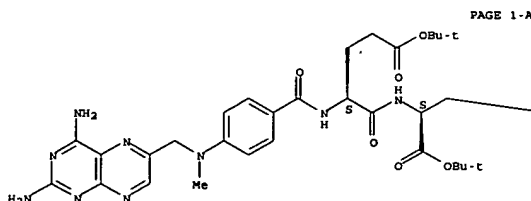
Absolute stereochemistry.



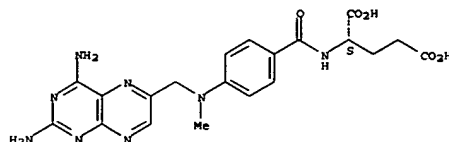
IT 59-05-2DP, Methotrexate, deriva.
 (prodrugs; improvement of antibody-directed enzyme prodrug therapy
 (ADEPT))

RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L24 ANSWER 27 OF 71 USPATFULL
 ACCESSION NUMBER: 2000137819 USPATFULL
 TITLE: Combined tissue factor and chemotherapeutic methods
 and
 INVENTOR(S): compositions for coagulation and tumor treatment
 Thorpe, Philip E., Dallas, TX, United States
 King, Steven W., Foothill Ranch, CA, United States
 Gao, Boning, Dallas, TX, United States
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
 Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6132729		20001017
APPLICATION INFO.:	US 1998-9217		19980120 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-42427P	19970127 (60)
	US 1997-36205P	19970127 (60)
	US 1997-35920P	19970122 (60)

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Bansal, Geetha P.
 LEGAL REPRESENTATIVE: Williams, Morgan & Amerson
 NUMBER OF CLAIMS: 46
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 25 Drawing Figure(s); 15 Drawing Page(s)
 LINE COUNT: 7498

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

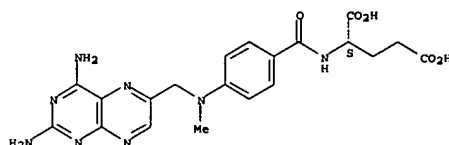
AB The invention embodies the surprising discovery that Tissue Factor (TF) compositions and variants thereof specifically localize to the blood vessels within a vascularized tumor following systemic administration. The invention therefore provides methods and compositions comprising coagulation-deficient Tissue Factor for use in effecting specific coagulation and for use in tumor treatment. The TF compositions and methods of present invention may be used alone, as TF conjugates with improved half-life, or in combination with other agents, such as conventional chemotherapeutic drugs, targeted immunotoxins, targeted coaguligands, and/or in combination with Factor VIIa (FVIIa) or FVII activators.

IT 59-05-2, Methotrexate
 (tissue factor methods and compns. for targeted coagulation and tumor treatment)

RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 27 OF 71 USPATFULL (Continued)



L24 ANSWER 28 OF 71 USPATFULL
 ACCESSION NUMBER: 2000:94681 USPATFULL
 TITLE: Metal complexes derivatized with folate for use in diagnostic and therapeutic applications
 INVENTOR(S): Wedeking, Paul W., Pennington, NJ, United States
 Wager, Ruth E., Rockville, MD, United States
 Arunachalam, Thangavel, Plainsboro, NJ, United States
 Ramalingam, Kondareddi, Dayton, NJ, United States
 Linder, Karen E., Kingston, NJ, United States
 Ranganathan, Ramachandran S., Princeton, NJ, United States
 Mun, Adrian D., Lambertville, NJ, United States
 Raju, Natarajan, Kendall Park, NJ, United States
 Tweedle, Michael P., Princeton, NJ, United States
 PATENT ASSIGNEE(S): Bracco Research USA Inc., Princeton, NJ, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6093382		20000725
APPLICATION INFO.:	US 1998-80157		19980516 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Dees, Jose' G.		
ASSISTANT EXAMINER:	Jones, Dameron		
LEGAL REPRESENTATIVE:	Belogoh, Imre		
NUMBER OF CLAIMS:	36		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	3756		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Diagnostic and therapeutic compositions in the form of complexes for enhancing transmembrane transport of a diagnostic or therapeutic agent and methods for their use. The complexes contain the .alpha., .gamma., or bis isomers of folate receptor-binding analogs of folate, a metal chelated by a ligand, and in one embodiment, a chemotherapeutic agent.

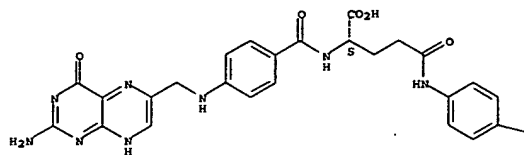
IT 251084-37-4P 251084-40-9P 251084-43-2P
 251084-49-8P 251084-50-1P 251084-51-2P
 (prepn. and reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)

RN 251084-37-4 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA

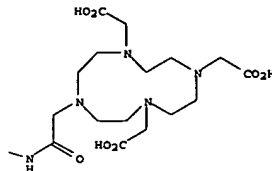
INDEX
 NAME)
 Absolute stereochemistry.

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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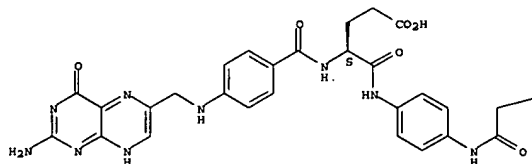


RN 251084-40-9 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA

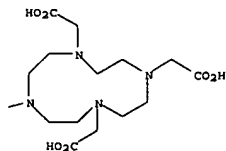
INDEX
 NAME)
 Absolute stereochemistry.

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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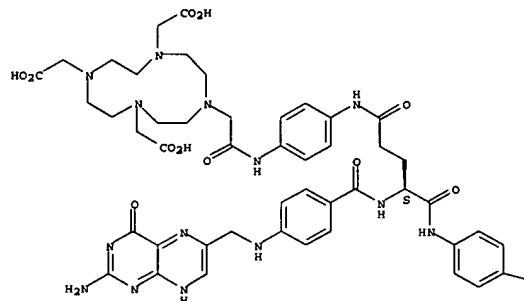


RN 251084-43-2 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[[(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentenediyl]bis(imino-4,1-phenyleneimino(2-oxo-2,1-ethanediy)]bis- (9CI) (CA INDEX NAME)

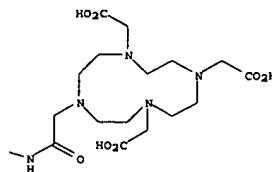
Absolute stereochemistry.

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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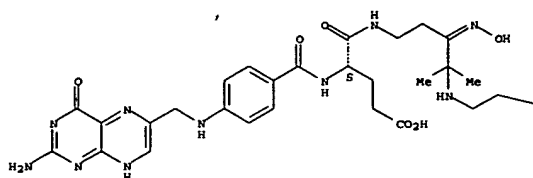
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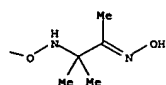
RN 251084-49-8 USPATFULL
 CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
 15-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, (15S)- (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)
Absolute stereochemistry.
Double bond geometry unknown.

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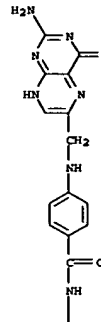


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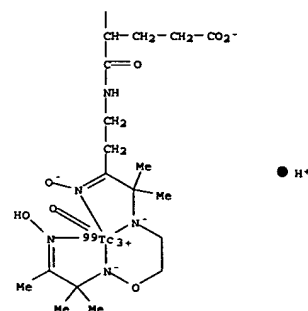


RN 251084-50-1 USPATFULL
CN Technetate(1-)-99Tc, [(4S)-4-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino-.kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-, hydrogen, (5P-5-15)- (9CI) (CA INDEX NAME)

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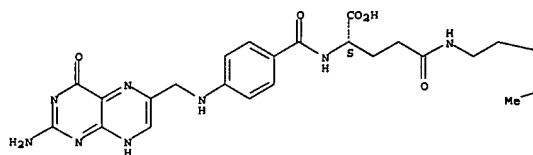
PAGE 2-A



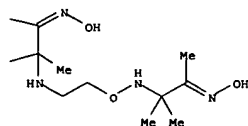
L24 ANSWER 28 OF 71 USPATFULL (Continued)
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CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
17-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, (17S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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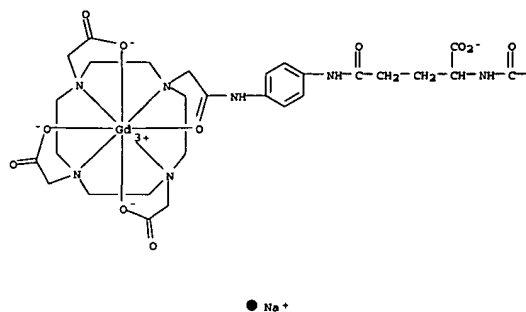


IT 251084-38-5P 251084-39-6P 251084-41-0P
251084-42-1P 251084-44-3P 251084-45-4P
251084-52-3P
(prepn. for use in diagnostic and therapeutic applications)
RN 251084-38-5 USPATFULL
CN Gadolinate(1-), [10-[2-[[4-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

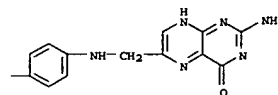
L24 ANSWER 28 OF 71 USPATFULL (Continued)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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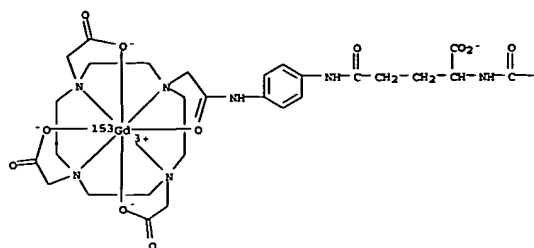
PAGE 1-B



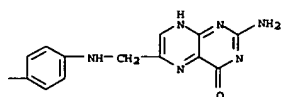
RN 251084-39-6 USPATFULL
CN Gadolinate(1-)-153Gd, [10-[2-[[4-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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● Na⁺

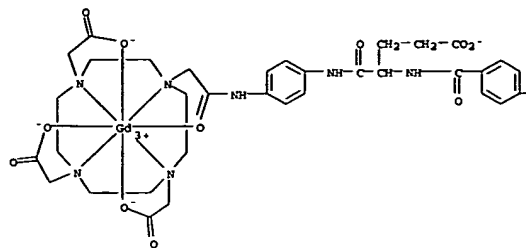
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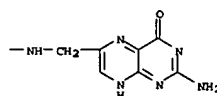
RN 251084-41-0 USPATFULL
 CN Gadolinium, {mu.-[[10,10'-[[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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● Na⁺

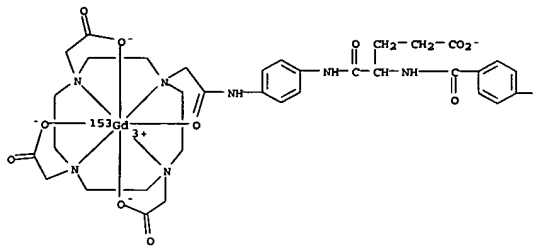
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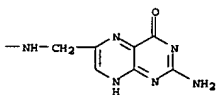
RN 251084-42-1 USPATFULL
 CN Gadolinium, {mu.-[[10,10'-[[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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● Na⁺

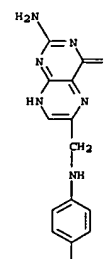
PAGE 1-B



RN 251084-44-3 USPATFULL
 CN Gadolinium, {mu.-[[10,10'-[[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediy]bis[imino-4,1-phenyleneimino[2-(oxo-.kappa.O)-2,1-ethanediy]]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]](6-)]di- (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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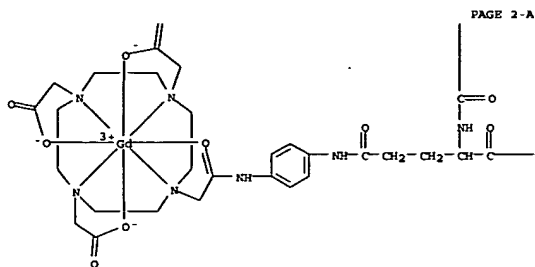
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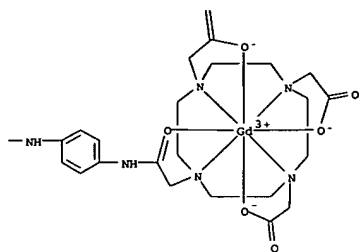
L24 ANSWER 28 OF 71 USPATFULL (Continued)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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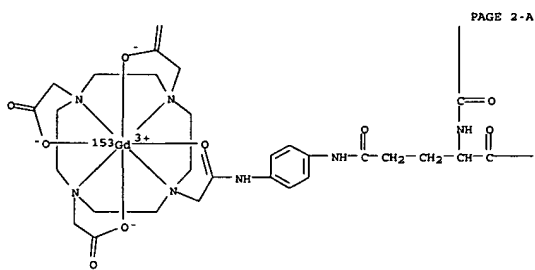
PAGE 1-B

RN 251084-45-4 USPATFULL
 CN Gadolinium-153Gd, [mu.-[[[10,10'-[[2-[[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentenediyl]]bis(imino-4,1-phenyleneimino[2-(oxo-.kappa.O)-2,1-ethanediy]]]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]](6-)]]]di- (9CI) (CA INDEX NAME)

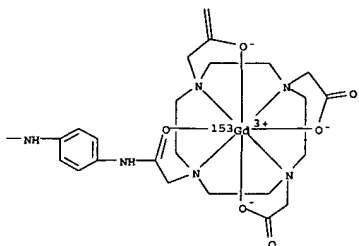
L24 ANSWER 28 OF 71 USPATFULL (Continued)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-A

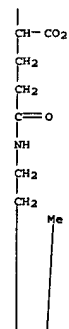
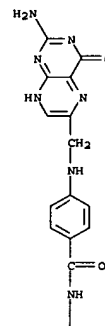


PAGE 2-B



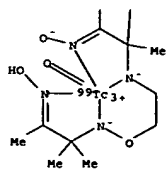
PAGE 2-A

RN 251084-52-3 USPATFULL
 CN Technetate(1-)-99Tc, [(2S)-2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino-.kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-], hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)



L24 ANSWER 28 OF 71 USPATFULL (Continued)

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● H⁺

IT 251084-56-7P 251084-60-3P 251084-64-7P
 251084-76-1P 251084-80-7P

(reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)

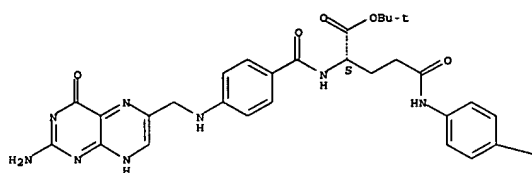
RN 251084-56-7 USPATFULL

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(4S)-4-

[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

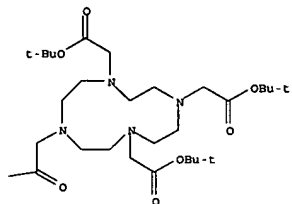
Absolute stereochemistry.

PAGE 1-A



L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-B

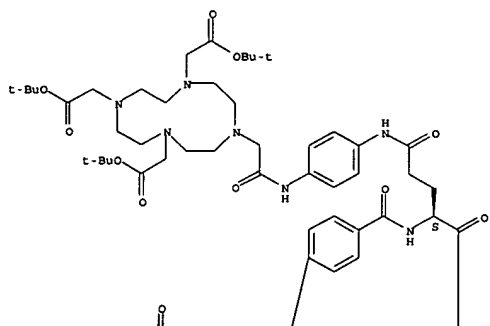


RN 251084-64-7 USPATFULL

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[[(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentenediyl]bis[imino-4,1-phenyleneimino(2-oxo-2,1-ethanediy)]]]bis-, hexakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

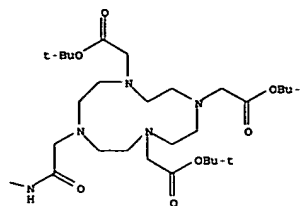
Absolute stereochemistry.

PAGE 1-A



L24 ANSWER 28 OF 71 USPATFULL (Continued)

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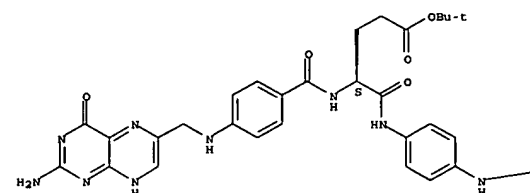


RN 251084-60-3 USPATFULL

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[[(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

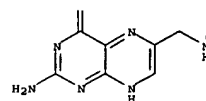
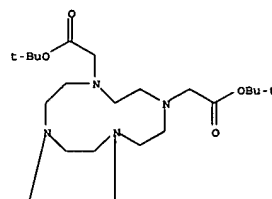
Absolute stereochemistry.

PAGE 1-A



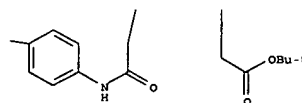
L24 ANSWER 28 OF 71 USPATFULL (Continued)

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PAGE 2-B

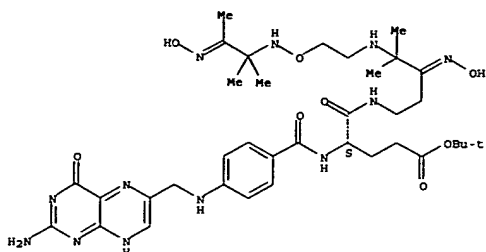


RN 251084-76-1 USPATFULL

CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid, 15-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (15S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

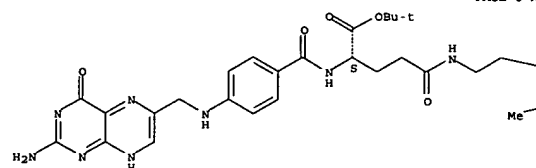
L24 ANSWER 28 OF 71 USPATFULL (Continued)
Double bond geometry unknown.



RN 251084-80-7 USPATFULL
CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
17-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (17S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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L24 ANSWER 29 OF 71 USPATFULL
ACCESSION NUMBER: 2000.91722 USPATFULL
TITLE: Homogeneous immunoassays using mutant glucose-6-phosphate dehydrogenases
INVENTOR(S): Jakobovits, Edward Benjamin, Menlo Park, CA, United States
Silen, Joy L., Belmont, CA, United States
Levy, Mark J., San Jose, CA, United States
Goodman, Thomas C., Mountain View, CA, United States
Becker, Martin, Palo Alto, CA, United States
Ullman, Edwin P., Atherton, CA, United States
Caldwell, Robert M., San Carlos, CA, United States
Bott, Richard R., Burlingame, CA, United States
Barnett, Christopher Charles, South San Francisco, CA, United States
PATENT ASSIGNEE(S): Behringwerke AG, Marburg, Germany, Federal Republic of (non-U.S. corporation)

NUMBER	KIND	DATE
US 6090567		20000718
US 1995-445464		19950522 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-44857, filed on 8 Apr 1993
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Portner, Ginny Allen
LEGAL REPRESENTATIVE: Boese, Mark L., Peries, Rohan, Leiterez, Theodore J.
NUMBER OF CLAIMS: 51
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)
LINE COUNT: 3696

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for immunoassay of analytes employing mutant

glucose-6-phosphate dehydrogenase (G6PDH) enzymes as labels. In particular, the invention relates to the use of conjugates of an analyte or analyte analog and a mutant NAD.sup.+ dependent G6PDH differing from any precursor G6PDH by the deletion, substitution, or insertion, or any combination thereof of at least one amino acid per subunit. The invention also involves the construction of several mutations in precursor glucose-6-phosphate dehydrogenase (G6PDH) enzymes. Typically, the mutations involve

deletion or substitution of one or more lysine residues, or introduction of one or more cysteine residues by insertion of cysteine to precursor G6PDH

or substitution of precursor G6PDH amino acids residues with cysteine. The present invention also relates to conjugates of the subject enzymes and specific binding pair members, kits useful in performing the methods of the invention, cell lines producing the subject enzymes, DNA sequences encoding the subject enzymes, and vectors containing DNA encoding the subject enzymes and designed to allow a host cell to produce the

subject enzymes.

IT 59-30-3, Folic acid, analysis

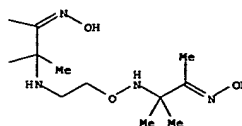
(immunoanal. detn. of; homogeneous immunoassays using conjugates of analytes and substituted analogs of glucose-6-phosphate dehydrogenases)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-

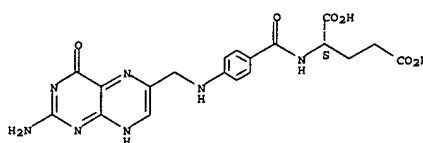
L24 ANSWER 28 OF 71 USPATFULL (Continued)

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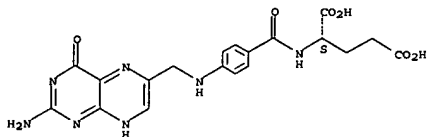
L24 ANSWER 29 OF 71 USPATFULL (Continued)
pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



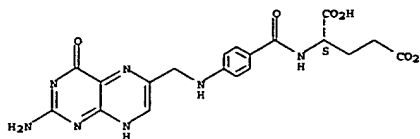
L24 ANSWER 30 OF 71 USPATFULL
 ACCESSION NUMBER: 2000:80599 USPATFULL
 TITLE: Nucleophilic polysubstituted aryl acridinium ester conjugates and syntheses thereof
 INVENTOR(S): Law, Say-Jong, Westwood, MA, United States
 PATENT ASSIGNEE(S): Bayer Corporation, East Walpole, MA, United States (U.S. corporation)

NUMBER	KIND	DATE
US 6080591		20000627
US 1997-920372		19970829 (8)
Continuation of Ser. No. US 1993-32947, filed on 17 Mar		
1993, now patented, Pat. No. US 5663074 which is a continuation of Ser. No. US 1992-871601, filed on 17 Apr 1992, now patented, Pat. No. US 5241070 which is a continuation of Ser. No. US 1988-249620, filed on 26 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Wortman, Donna	
ASSISTANT EXAMINER:	Brumback, Brenda G.	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 15 Drawing Page(s)	
LINE COUNT:	1138	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	This invention is directed to novel nucleophilic polysubstituted aryl acridinium conjugates and the methods for preparation thereof. The novel nucleophilic polysubstituted aryl acridinium conjugates are useful in biological assays, including novel assays for the determination of Vitamin B.sub.12, folate, cortisol, estradiol, and thromboxane B.sub.2.	
IT 59-30-3, analysis	(detn. of, with folate-acridinium ester deriv. conjugate)	
RN 59-30-3 USPATFULL		
CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)		
Absolute stereochemistry.		



IT 59-30-3DP, deriva., conjugates with acridinium ester deriva.
 (prepn. of, for folate detn.)

L24 ANSWER 30 OF 71 USPATFULL (Continued)
 RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



L24 ANSWER 31 OF 71 USPATFULL
 ACCESSION NUMBER: 2000:37407 USPATFULL
 TITLE: Unit dosage forms for treatment of vasoconstriction and related conditions
 INVENTOR(S): Richardson, Kenneth T., Anchorage, AK, United States
 Pearson, Don C., Tacoma, WA, United States
 PATENT ASSIGNEE(S): ChronoRX, LLC, Anchorage, AK, United States (U.S. corporation)

NUMBER	KIND	DATE
US 6042849		20000328
US 1998-111055		19980707 (9)
Continuation of Ser. No. US 849068		

NUMBER	DATE
US 1996-15115P	19960410 (60)

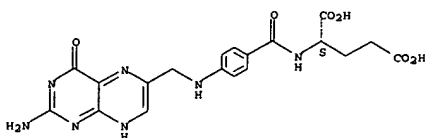
PRIORITY INFORMATION: US 1996-15115P 19960410 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Jordan, Kimberly
 LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP
 NUMBER OF CLAIMS: 21
 EXEMPLARY CLAIM: 1
 LINE COUNT: 871
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Magnesium is formulated in combination with vitamin E, vitamin C, folate, selenium, and optionally melatonin in a unit dosage form for oral administration, for the treatment of vasoconstriction and the physiological and pathological conditions giving rise to vasoconstriction. These active agents complement each other in suppressing these conditions, using a variety of mechanisms operating in conjunction with one another. The inclusion of magnesium in a plurality of forms provides additional advantages in terms of controlling and sustaining the release of magnesium in locations along the digestive tract where the magnesium will have its greatest effectiveness as a therapeutic agent, thus improving control over the clinical bioavailability of magnesium and in improving the selection of appropriate therapeutic ranges.

IT 59-30-3, Folic acid, biological studies
 (oral dosage forms contg. minerals and vitamins for treatment of vasoconstriction and related conditions)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 31 OF 71 USPATFULL (Continued)

L24 ANSWER 32 OF 71 USPATFULL
 ACCESSION NUMBER: 2000:27786 USPATFULL
 TITLE: Homogeneous immunoassays using mutant glucose-6-phosphate dehydrogenases
 INVENTOR(S): Jakobowitz, Edward Benjamin, Menlo Park, CA, United States
 Silen, Joy L., Belmont, CA, United States
 Levy, Mark J., San Jose, CA, United States
 Goodman, Thomas C., Mountain View, CA, United States
 Becker, Martin, Palo Alto, CA, United States
 Ullman, Edwin F., Atherton, CA, United States
 Caldwell, Robert M., San Carlos, CA, United States
 Bott, Richard R., Burlingame, CA, United States
 Barnett, Christopher Charles, South San Francisco, CA, United States
 PATENT ASSIGNEE(S): Behring Diagnostics GmbH, Marburg, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6031890		20000307
APPLICATION INFO:	US 195-445463		19950522 (8)
RELATED APPL. INFO:	Division of Ser. No. US 1993-44857, filed on 8 Apr 1993		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Longton, Enrique D.		
LEGAL REPRESENTATIVE:	Leitereg, Theodore J, Ruzsala, Lois K.		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	3755		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods for immunoassay of analytes employing mutant glucose-6-phosphate dehydrogenase (G6PDH) enzymes as labels. In particular, the invention relates to the use of conjugates of an analyte or analyte analog and a mutant NAD⁺ dependent G6PDH differing from any precursor G6PDH by the deletion, substitution, or insertion, or any combination thereof of at least one amino acid per subunit. The invention also involves the construction of several mutations in precursor glucose-6-phosphate dehydrogenase (G6PDH) enzymes. Typically, the mutations involve deletion or substitution of one or more lysine residues, or introduction of one or more cysteine residues by insertion of cysteine to precursor G6PDH or substitution of precursor G6PDH amino acids residues with cysteine. The present invention also relates to conjugates of the subject enzymes and specific binding pair members, kits useful in performing the methods of the invention, cell lines producing the subject enzymes, DNA sequences encoding the subject enzymes, and vectors containing DNA encoding the subject enzymes and designed to allow a host cell to produce the subject enzymes.

IT 59-30-3, Polic acid, analysis (immunoanal. detn. of; homogeneous immunoassays using conjugates of

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:75119 CAPLUS
 DOCUMENT NUMBER: 132:8490
 TITLE: Metal complexes derivatized with folate for use in diagnostic and therapeutic applications
 INVENTOR(S): Wedeking, Paul W.; Wager, Ruth E.; Arunachalam, Thangavel; Ramalingam, Kondareddiar; Linder, Karen E.; Ranganathan, Ramachandran S.; Nunn, Adrian D.; Raju, Natarajan; Tweedle, Michael F.; Bracco International B.V., Neth.
 PATENT ASSIGNEE(S): PCT Int. Appl., 191 pp.
 SOURCE: CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959640	A2	19991125	WO 1999-18858	19990512
WO 9959640	A3	20000302		
W: AU, CA, JP, NO, NZ				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6093382	A	20000725	US 1998-80157	19980516
AU 9936225	A1	19991206	AU 1999-36225	19990512
EP 1077729	A2	20010228	EP 1999-918204	19990512
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002515462	T2	20020528	JP 2000-549303	19990512
US 6221334	B1	20010424	US 2000-477072	20000103
US 2001004454	A1	20010621	US 2000-752867	20001230
PRIORITY APPL. INFO.: US 1998-80157 A 19980516				
WO 1999-18858 W 19990512				
US 2000-477072 A3 20000103				

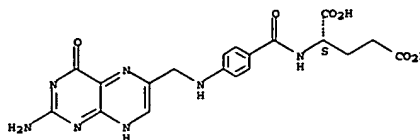
OTHER SOURCE(S): MARPAT 132:8490
 AB Diagnostic and therapeutic compns. as complexes for enhancing transmembrane transport of a diagnostic or therapeutic agent and methods for their use are claimed. The complexes contain the .alpha., .gamma., or

bis isomers of folate receptor-binding analogs of folate, a metal chelated by a ligand, and in one embodiment, a chemotherapeutic agent. Thus, I and its Gd and 153Gd complexes were prepd.
 IT 251084-37-4P 251084-40-9P 251084-43-2P
 251084-49-8P 251084-50-1P 251084-51-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)

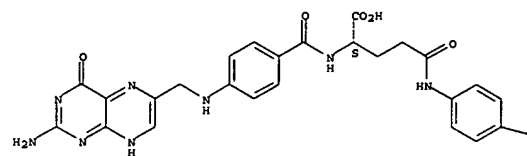
RN 251084-37-4 CAPLUS
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Absolute stereochemistry.

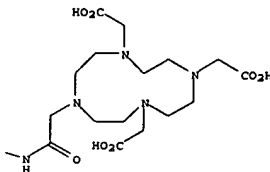
L24 ANSWER 32 OF 71 USPATFULL (Continued)
 analytes and substituted analogs of glucose-6-phosphate dehydrogenases)
 RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)
 PAGE 1-A



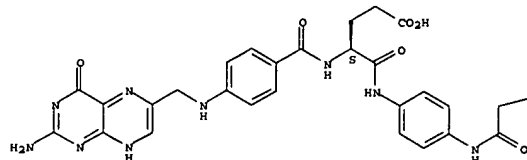
PAGE 1-B



RN 251084-40-9 CAPLUS
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

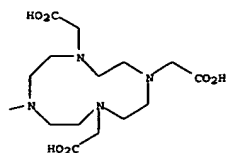
Absolute stereochemistry.

PAGE 1-A



L24 ANSWER 33 OF 71 CAPLAUS COPYRIGHT 2002 ACS (Continued)

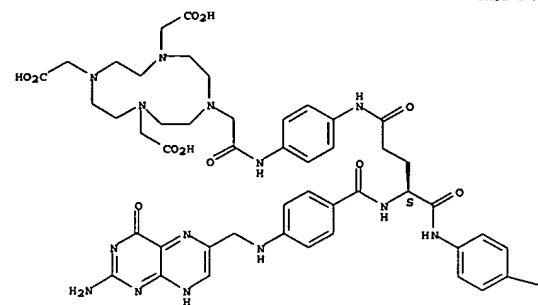
PAGE 1-B



RN 251084-43-2 CAPLAUS
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[{(2S)-2-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediy]]bis[imino-4,1-phenyleneimino(2-oxo-2,1-ethanediy]]bis- (9CI) (CA INDEX NAME)

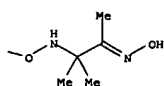
Absolute stereochemistry.

PAGE 1-A



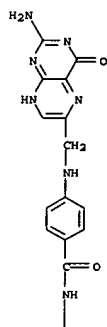
L24 ANSWER 33 OF 71 CAPLAUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B



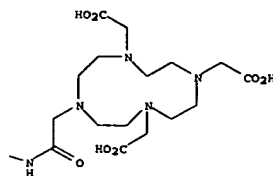
RN 251084-50-1 CAPLAUS
 CN Technetate(1-)-99Tc, [(4S)-4-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]amino]-9,17-bis(hydroxyimino)-.kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-, hydrogen, [5P-5-15]- (9CI) (CA INDEX NAME)

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L24 ANSWER 33 OF 71 CAPLAUS COPYRIGHT 2002 ACS (Continued)

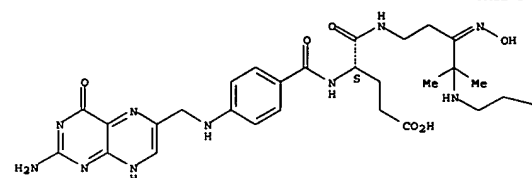
PAGE 1-B



RN 251084-49-8 CAPLAUS
 CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid, 15-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, (15S)-(9CI) (CA INDEX NAME)

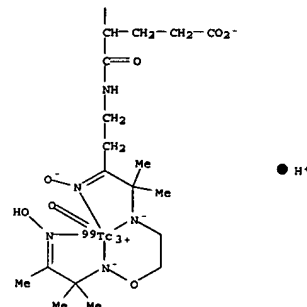
Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



L24 ANSWER 33 OF 71 CAPLAUS COPYRIGHT 2002 ACS (Continued)

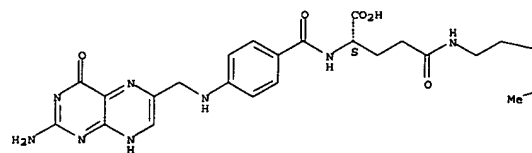
PAGE 2-A



RN 251084-51-2 CAPLAUS
 CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid, 17-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl)amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, (17S)-(9CI) (CA INDEX NAME)

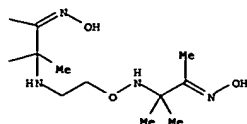
Absolute stereochemistry.
Double bond geometry unknown.

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L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B



IT 251084-38-5P 251084-39-6P 251084-41-0P
251084-42-1P 251084-44-3P 251084-45-4P
251084-52-3P

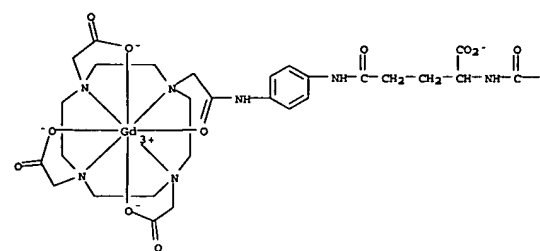
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. for use in diagnostic and therapeutic applications)

RN 251084-38-5 CAPLUS

CN Gadolinate(1-), [10-[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyloxy]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

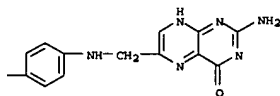
tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

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● Na⁺

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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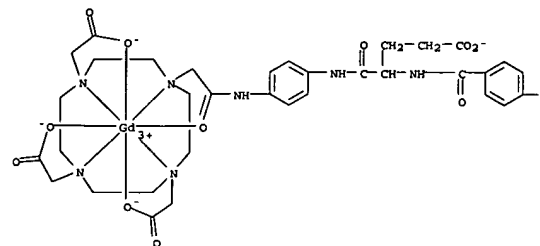


RN 251084-41-0 CAPLUS

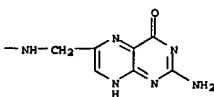
CN Gadolinate(1-), [10-[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyloxy]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

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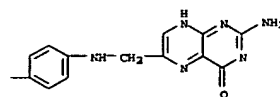
● Na⁺

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L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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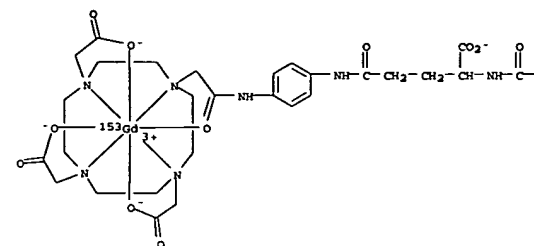


RN 251084-39-6 CAPLUS

CN Gadolinate(1-)-153Gd, [10-[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyloxy]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

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● Na⁺

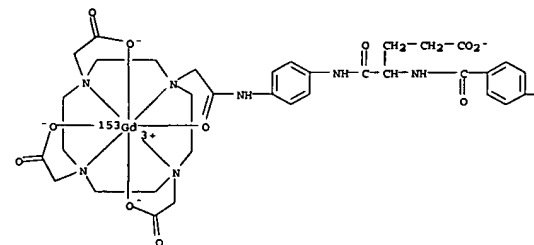
L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 251084-42-1 CAPLUS

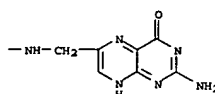
CN Gadolinate(1-)-153Gd, [10-[2-[[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyloxy]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.O)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

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● Na⁺

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RN 251084-44-3 CAPLUS

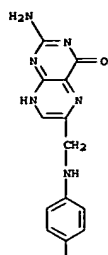
CN Gadolinium, [10,10'-[[2-[[[2-amino-1,4-dihydro-4-oxo-6-

pteridinyloxy]methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentenediyl]bis[imino-4,1-phenyleneimino[2-(oxo-.kappa.O)-2,1-ethanediyl]]bis[1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]](6-)]di- (9CI) (CA INDEX NAME)

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

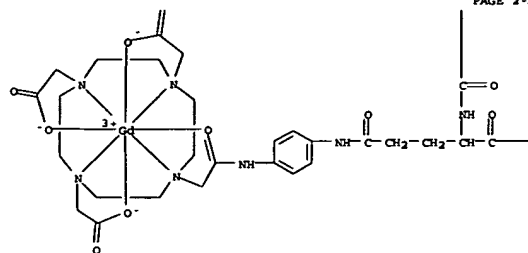
PAGE 1-A



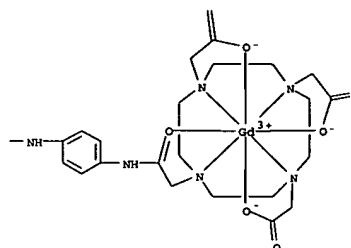
PAGE 1-B

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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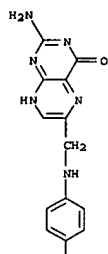
PAGE 2-B



RN 251084-45-4 CAPLUS
 CN Gadolinium-153Gd, [mu.-[10,10'-[2-[[4-[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentenediyl]bis[imino-4,1-phenyleneimino(2-(oxo-kappa.O)-2,1-ethanediyl)]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-kappa.N1,kappa.N4,kappa.N7,kappa.a.N10,kappa.O1,kappa.O4,kappa.O7]](6-)]di- (9CI) (CA INDEX NAME)

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

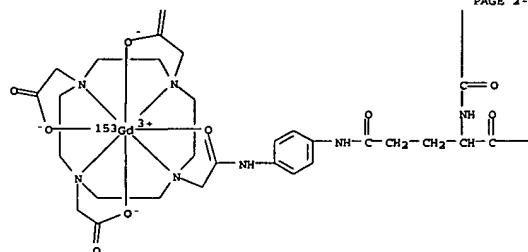
PAGE 1-A



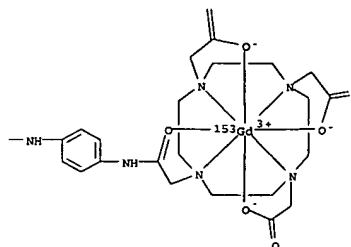
PAGE 1-B

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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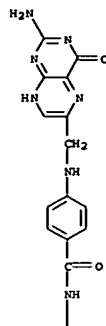
PAGE 2-B



RN 251084-52-3 CAPLUS
 CN Technetate(1-)-99Tc, [(2S)-2-[[4-[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino-kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-, hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

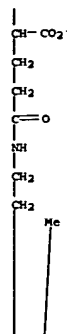
L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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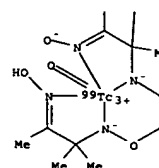


L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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PAGE 3-A

● H⁺

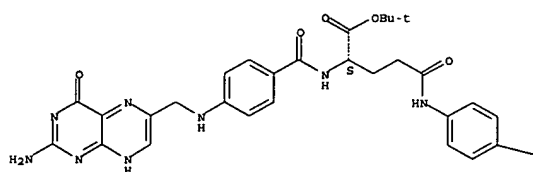
IT 251084-56-7P 251084-60-3P 251084-64-7P
 251084-76-1P 251084-80-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (reactant for prepn. of metal complexes for use in diagnostic
 and therapeutic applications)

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

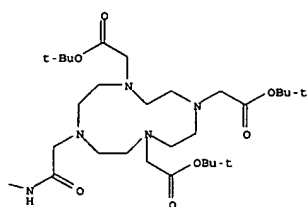
RN 251084-56-7 CAPLUS
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[[4-[[[4S]-4-
 [[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-
 5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-,
 tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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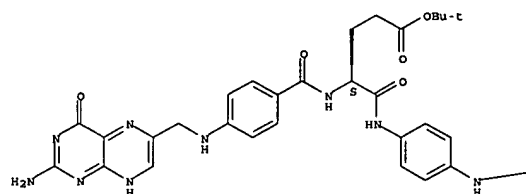


RN 251084-60-3 CAPLUS
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[[4-[[[2S]-2-
 [[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-
 5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-,
 tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

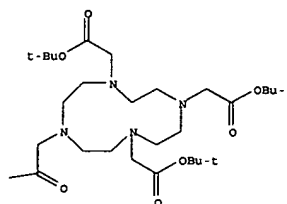
Absolute stereochemistry.

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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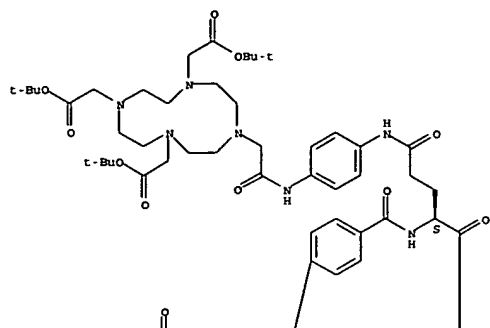


RN 251084-64-7 CAPLUS
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[[2S]-2-[[[4-
 [[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-
 dioxo-1,5-pentanediy]]bis[[imino-4,1-phenyleneimino(2-oxo-2,1-
 ethanediy]]]bis-, hexakis(1,1-dimethylethyl) ester (9CI) (CA INDEX
 NAME)

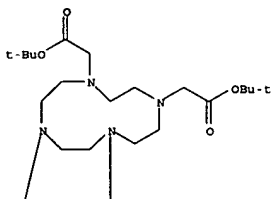
Absolute stereochemistry.

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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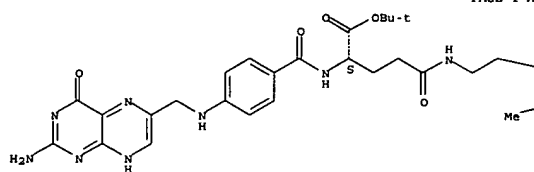


L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

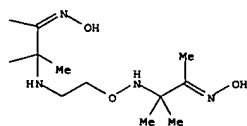
CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
17-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (17S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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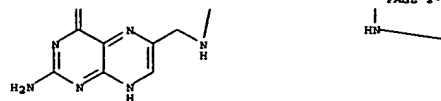


PAGE 1-B

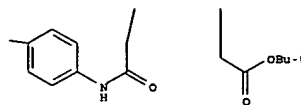


L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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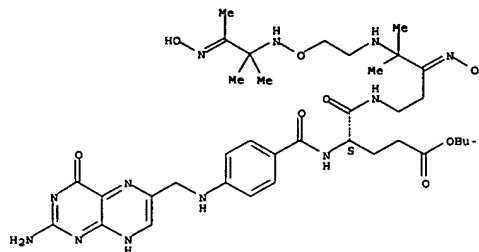
PAGE 2-B



RN 251084-76-1 CAPLUS

CN 5-Oxa-4,8,13-triazaoctadecan-18-oic acid,
15-[[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (15S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 251084-80-7 CAPLUS

L24 ANSWER 34 OF 71 USPATFULL

ACCESSION NUMBER: 1999:124443 USPATFULL
TITLE: In vivo binding pair pretargeting
INVENTOR(S): Pomato, Nicholas, Frederick, MD, United States
McCabe, Richard P., West Chester, PA, United States
Hawkins, Gregory A., Madison, WI, United States
Bredehorst, Reinhard, Hamburg, Germany, Federal Republic of
Kim, Chong-Ho, Rockville, MD, United States
Vogel, Carl-Wilhelm, Hamburg, Germany, Federal Republic of
PATENT ASSIGNER(S): PerImmune Holdings, Inc., Rockville, MD, United States (U.S. corporation)

NUMBER	KIND	DATE
US 5965106		19991012
US 1995-461267		19950605 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-140186, filed on 4 Nov 1993, now patented, Pat. No. US 5578289 which is a continuation-in-part of Ser. No. US 1992-846453, filed on 4 Mar 1992, now abandoned	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Green, Lora M.	
LEGAL REPRESENTATIVE:	Gormley, Mary E.	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	59 Drawing Figure(s); 42 Drawing Page(s)	
LINE COUNT:	3962	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for in-vivo targeting a functional moiety in a patient by administering a targeting moiety coupled to an affinity component, wherein the targeting moiety has affinity for binding sites in a target area, and administering a binding partner to the affinity component coupled to a functional moiety to localize the functional moiety in the target area. Preferably the targeting moiety is an antibody and the functional moiety is a radiometal when performing in vivo imaging or therapy. The affinity component may be a novel methotrexate analog. Preferably, the affinity component is thermo-stabilized.

IT 151395-94-7P 246154-6S-4P 246154-67-6P

(in vivo binding pair pretargeting with antibodies and methotrexate analogs)

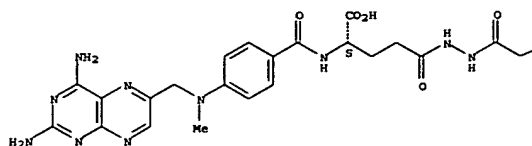
RN 151395-94-7 USPATFULL

CN 3,6,9,12,13-Pentaoxaoctadecadienoic acid,
3,6,9-tris(carboxymethyl)-17-[[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-11,14-dioxo-, (17S)-(9CI) (CA INDEX NAME)

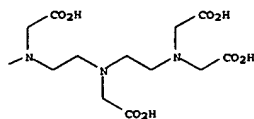
Absolute stereochemistry.

L24 ANSWER 34 OF 71 USPATFULL (Continued)

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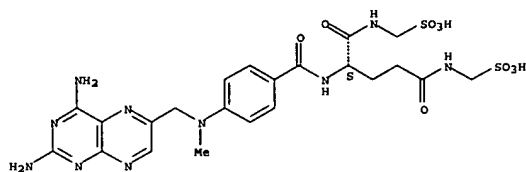


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RN 246154-65-4 USPATFULL
 CN Methanesulfonic acid, [(2S)-2-[[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-1,5-dioxo-1,5-pentenediyl]diimino]bis- (9CI) (CA INDEX NAME)

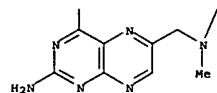
Absolute stereochemistry.



RN 246154-67-6 USPATFULL
 CN 3,5,7,10,14,17,19,21-Octaazatricosaenedioic acid, 12-[[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-1-oxobutyl]hydrazino]thioxomethyl]amino]phenyl]methyl]-3,5,7,17,19,21-hexakis(carboxymethyl)-9,15-dioxo- (9CI) (CA INDEX NAME)

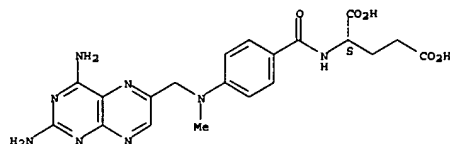
L24 ANSWER 34 OF 71 USPATFULL (Continued)

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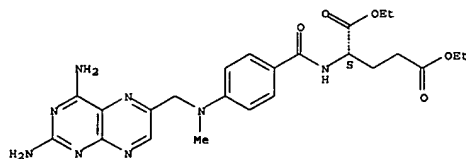
IT 59-05-2DP, Methotrexate, conjugates 43170-88-3P
 77410-28-7P
 (in vivo binding pair pretargeting with antibodies and methotrexate analogs)
 RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 43170-88-3 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



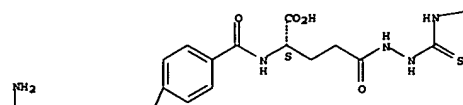
RN 77410-28-7 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-, dihydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

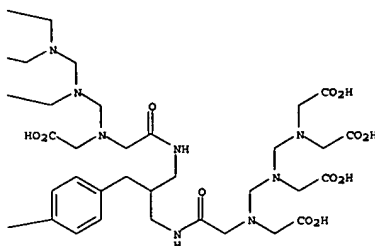
L24 ANSWER 34 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

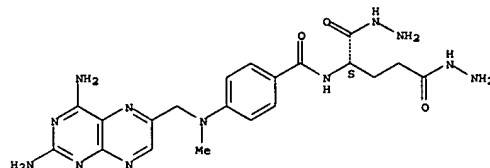
PAGE 1-A

HO₂CHO₂CHO₂C

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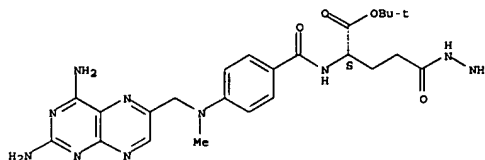


L24 ANSWER 34 OF 71 USPATFULL (Continued)



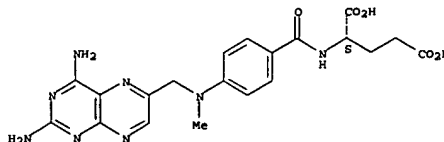
IT 79640-69-0
 (in vivo binding pair pretargeting with antibodies and methotrexate analogs)
 RN 79640-69-0 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-, 1-(1,1-dimethylethyl) ester, 5-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 59-05-2, Methotrexate
 (in vivo binding pair pretargeting with antibodies and methotrexate analogs)
 RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 34 OF 71 USPATFULL (Continued)

L24 ANSWER 35 OF 71 USPATFULL

ACCESSION NUMBER: 1999:92583 USPATFULL
 TITLE: Preparation of sub 100 A magnetic particles and magnetic molecular switches
 INVENTOR(S): Chagnon, Mark S., Pelham, NH, United States
 Ferris, John R., Newburyport, MA, United States
 Carter, Michelle J., Derry, NH, United States
 Hamilton, Tracy J., Hudson, NH, United States
 Gray, Maria A., Derry, NH, United States
 PATENT ASSIGNEE(S): Binax NH, Inc., Atkinson, NH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5935866		19990810
APPLICATION INFO.:	US 1992-894260		19920608 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1990-556169, filed on 10 Aug 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-455071, filed on 22 Dec 1989, now abandoned		

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Woodward, Michael P.
 LEGAL REPRESENTATIVE: Hayes, Soloway, Hennessey, Grossman & Hage, P.C.
 NUMBER OF CLAIMS: 69
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
 LINE COUNT: 1043

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Inorganic oxides of substantially uniform particle size distribution are

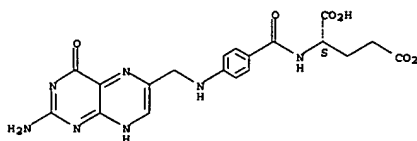
prepared by contacting aqueous solutions of an inorganic salt and an inorganic base across a porous membrane wherein the membrane contains a plurality of pores which allows for precipitation of a substantially mono-dispersed size inorganic oxide particles on one side of the membrane and precipitation of a salt of the corresponding base on a second side of the membrane.

IT 59-30-3, biological studies
 (antibodies to: prepn. of sub 100 a magnetic particles and magnetic mol. switches)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 35 OF 71 USPATFULL (Continued)

L24 ANSWER 36 OF 71 USPATFULL

ACCESSION NUMBER: 1999:65058 USPATFULL
 TITLE: Amphiphilic linkers for coupling administrable diagnostically or physiologically active agents and bioselective targeting compounds
 INVENTOR(S): Tournier, Herve, Valletir, France
 Pochon, Sibylle, Geneva, Switzerland
 Lamy, Bernard, Geneva, Switzerland
 PATENT ASSIGNEE(S): Bracco Research S.A., Switzerland (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5910300		19990608
APPLICATION INFO.:	US 1996-740620		19961031 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1995-810689	19951101
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Dees, Jose' G.	
ASSISTANT EXAMINER:	Jones, Dameron	
LEGAL REPRESENTATIVE:	Nixon & Vanderhye	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)	
LINE COUNT:	1328	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Administrable factors or compositions to be directed to specific sites in the body of human and animal patients which comprise a medically and/or diagnostically effective moiety (I) and, coupled thereto by means

of a linker (L), a substance (II) having specific affinity for specific sites in the organism.

Linker "L" has a structure schematized by the formula:

Y(W-Z-R).sub.m, m being 1, 2, or 4

wherein the portion YW is an amphiphile, i.e. a segment comprised of a hydrophobic-lipophilic sequence "Y" and a hydrophilic-lipophobic sequence "W" connected covalently together, Z is a chemical bond or an intermediate connector sequence and R is a reactive function for effecting coupling with selected substances (II).

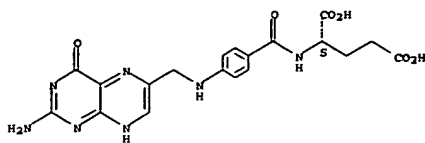
IT 59-30-3D, particle-linker conjugates
 (targeted magnetically labeled mol. marker systems for MRI, and prepn. thereof)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 36 OF 71 USPATFULL (Continued)



L24 ANSWER 37 OF 71 USPATFULL

ACCESSION NUMBER: 1998:156957 USPATFULL
 TITLE: Unit dosage forms for treatment of vasoconstriction and related conditions
 INVENTOR(S): Richardson, Kenneth T., Anchorage, AK, United States
 Pearson, Don C., Tacoma, WA, United States
 PATENT ASSIGNEE(S): ChronoRX LLC, Anchorage, AK, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5849338		19981215
	WO 9737670		19971016
APPLICATION INFO.:	US 1997-849068		19970826 (8)
	WO 1997-US4286		19970318
		19970826	PCT 371 date
		19970826	PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-753967, filed on 4 Dec 1996, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-15115P	19960410 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Jordan, Kimberly	
LEGAL REPRESENTATIVE:	Townsend and Townsend and Crew LLP	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
LINE COUNT:	881	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Magnesium is formulated in combination with vitamin E, vitamin C, folate, selenium, and optionally melatonin in a unit dosage form for oral administration, for the treatment of vasoconstriction and the physiological and pathological conditions giving rise to vasoconstriction. These active agents complement each other in suppressing these conditions, using a variety of mechanisms operating

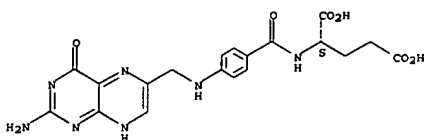
in conjunction with one another. The inclusion of magnesium in a plurality of forms provides additional advantages in terms of controlling and sustaining the release of magnesium in locations along the digestive tract where the magnesium will have its greatest effectiveness as a therapeutic agent, thus improving control over the clinical bioavailability of magnesium and in improving the selection of appropriate therapeutic ranges.

IT 59-30-3, Folic acid, biological studies
 (vitamin E and magnesium in unit dosage forms for treatment of vasoconstriction)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 37 OF 71 USPATFULL (Continued)



L24 ANSWER 38 OF 71 USPATFULL

ACCESSION NUMBER: 1998:111628 USPATFULL
 TITLE: In vivo binding pair pretargeting
 INVENTOR(S): Romo, Nicholas, Frederick, MD, United States
 McCabe, Richard P., West Chester, PA, United States
 Hawkins, Gregory Alan, Hastings, NE, United States
 Bredehorst, Reinhard, Hamburg, Germany, Federal Republic of
 Kim, Chong-Ho, Rockville, MA, United States
 Vogel, Carl-Wilhelm Ernst, Hamburg, Germany, Federal Republic of
 PATENT ASSIGNEE(S): Akzo Nobel N.V., Arnhem, Netherlands (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5807534		19980915
APPLICATION INFO.:	US 1995-452938		19950530 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-140186, filed on 4 Nov 1993, now patented, Pat. No. US 5578289 which is a continuation-in-part of Ser. No. US 1992-846453, filed on 4 Mar 1992, now abandoned		

	NUMBER	DATE
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Green, Lora M.	
ASSISTANT EXAMINER:	Musto, Neal A.	
LEGAL REPRESENTATIVE:	Gormley, Mary E.	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	1022	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

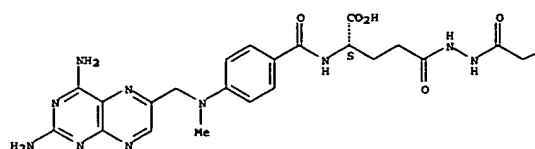
AB A method for in-vivo targeting a functional moiety in a patient by administering a targeting moiety coupled to an affinity component, wherein the targeting moiety has affinity for binding sites in a target area, and administering a binding partner to the affinity component coupled to a functional moiety to localize the functional moiety in the target area. Preferably the targeting moiety is an antibody and the functional moiety is a radiometal when performing in vivo imaging or therapy. The affinity component may be a novel methotrexate analog.
 IT 151395-94-7DP, complexes with indium-111 151395-94-7P
 (prepn. and site-specific delivery of, with dihydrofolate reductase-monoconal antibody conjugate)

RN 151395-94-7 USPATFULL
 CN 3,6,9,12,13-Pentaaazaocadecanedioic acid,
 3,6,9-tris(carboxymethyl)-17-[[4-[[[(2,4-diamino-6-pteridiny]methylamino]benzoyl]amino]-11,14-dioxo-, (17S)- (9CI) (CA INDEX NAME)

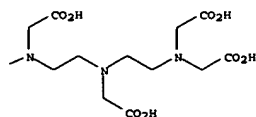
Absolute stereochemistry.

L24 ANSWER 38 OF 71 USPATFULL (Continued)

PAGE 1-A



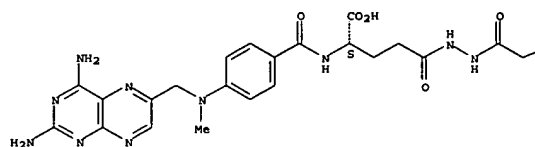
PAGE 1-B



RN 151395-94-7 USPATFULL
 CN 3,6,9,12,13-Pentazaoctadecanedioic acid,
 3,6,9-tris(carboxymethyl)-17-[[4-
 [[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-11,14-
 dioxo-, (17S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

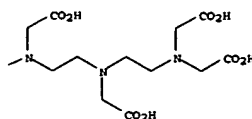
PAGE 1-A



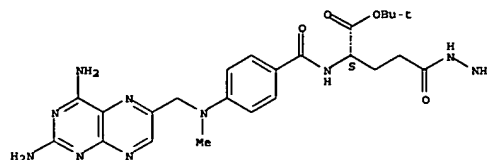
L24 ANSWER 38 OF 71 USPATFULL (Continued)

L24 ANSWER 38 OF 71 USPATFULL (Continued)

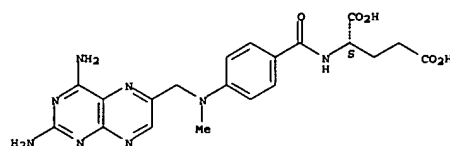
PAGE 1-B



IT 79640-69-0
 (reaction of, with DTPA dianhydride)
 RN 79640-69-0 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]-, 1-(1,1-dimethylethyl) ester, 5-hydrazide (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



IT 59-05-2D, Methotrexate, conjugates with radiometal
 (site-specific delivery of, for imaging or therapy)
 RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



L24 ANSWER 39 OF 71 USPATFULL
 ACCESSION NUMBER: 1998:108278 USPATFULL
 TITLE: High affinity mutants of nuclear factor-interleukin 6
 and methods of use therefor
 INVENTOR(S): Brasier, Allan R., Galveston, TX, United States
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
 Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5804445		19980908
APPLICATION INFO.:	US 1996-585197		19960111 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Robinson, Douglas W.		
ASSISTANT EXAMINER:	Nelson, Amy J.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	19		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 13 Drawing Page(s)		
LINE COUNT:	2246		

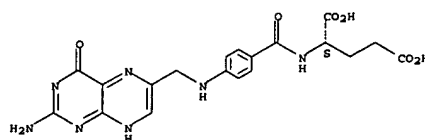
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to inhibitors of the sequence specific transcription factor nuclear factor IL-6 (NF-IL6) and methods of use therefor. In particular, substitution mutants in the N-terminus of the NF-IL6 tryptic core domain are disclosed that have a higher binding affinity for the DNA binding site than does the wild-type sequence.

IT 59-30-3D, Folic acid, conjugates
 (high affinity mutants of nuclear factor-interleukin 6 core domain for treating cytokine-related pro-inflammatory reaction)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-
 pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 40 OF 71 USPATFULL
 ACCESSION NUMBER: 1998:75570 USPATFULL
 TITLE: Treatment of toxoplasmosis
 INVENTOR(S): el Kouni, Mahmoud H., Birmingham, AL, United States
 Guarcello, Vincent, Birmingham, AL, United States
 Naguib, Fardos N. M., Birmingham, AL, United States
 PATENT ASSIGNEE(S): Research Corporation Technologies, Inc., Tucson, AZ,
 United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5773424		19980630
APPLICATION INFO.:	US 1994-358195		19941216 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wilson, James O.		
LEGAL REPRESENTATIVE:	Scully, Scott, Murphy & Presser		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1609		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Pharmaceutical compositions comprising a pharmaceutical composition comprising a compound which is an α - or β -anomer, a D(-) or L(-) enantiomer of the following structural formula: ##STR1# wherein R.sub.1 is a halogen, OR.sub.6, SR.sub.6, SeR.sub.6 or CH.sub.2 R.sub.6 and R.sub.6 is alkyl, alkene, arylalkyl, or aryl; ##STR2# X is CH.sub.2, O or S; R.sub.3 is H, OH, or a halogen;

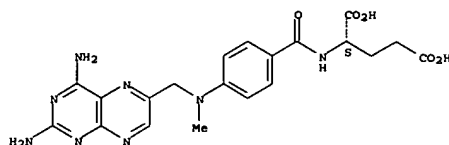
R.sub.4 is H, OH, or a halogen; and

R.sub.5 is CH.sub.3, CF.sub.3, CH.sub.2 OH, or CH.sub.2 OY and Y is a carbon ester or phosphorus; and

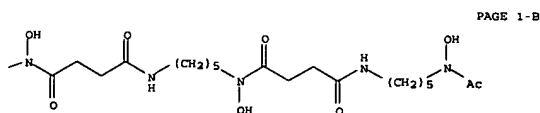
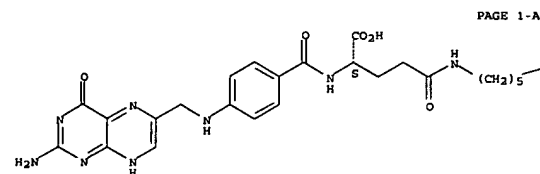
a pharmaceutically acceptable carrier.

IT 59-05-2, Methotrexate
 (purine nucleoside analogs for treatment of toxoplasmosis)
 RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

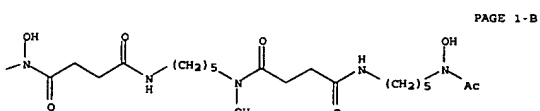
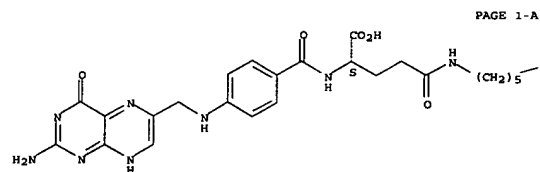


L24 ANSWER 41 OF 71 USPATFULL (Continued)



IT 170170-72-6DP, gallium-67 complexes
 (diagnostic agent-ligand complex in compn. and method for tumor
 imaging, and prepn. thereof)
 RN 170170-72-6 USPATFULL
 CN L-Glutamine, N2-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-
 pteridiny)methyl]amino]benzo yl]-N-(6,17,28-trihydroxy-7,10,18,21,29-
 pentaoso-6,11,17,22,28-pentaazatriacont-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 41 OF 71 USPATFULL
 ACCESSION NUMBER: 97:106781 USPATFULL
 TITLE: Composition and method for tumor imaging
 INVENTOR(S): Low, Philip Stewart, West Lafayette, IN, United States
 Horn, Mark Alan, Piscataway, NJ, United States
 Weinstein, Peter Frederick, West Lafayette, IN, United States
 PATENT ASSIGNEE(S): Purdue Research Foundation, West Lafayette, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5688488		19971118
APPLICATION INFO.:	US 1995-442174		19950516 (8)
RELATED APPL. INFO.:	Continuation-in-part of Ser. No. US 1994-349407, filed on 5 Dec 1994 which is a continuation of Ser. No. US 1992-851544, filed on 13 Mar 1992, now patented, Pat. No. US 5416016 which is a continuation of Ser. No. US 1990-498762, filed on 28 Mar 1990, now patented, Pat. No. US 5108921 which is a continuation-in-part of Ser. No. US 1989-331816, filed on 3 Apr 1989, now abandoned		

DOCUMENT TYPE:

FILE SEGMENT:

PRIMARY EXAMINER:

ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method is provided for enhancing transmembrane transport of a

diagnostic agent across a membrane of a living cell. The method

comprises contacting a membrane of a living cell with a complex formed

between, said diagnostic agent and ligands selected from biotin

or biotin receptor-binding analogs of biotin, folate or

folate receptor-binding analogs of folate, riboflavin

or riboflavin receptor-binding analogs of riboflavin to initiate

receptor mediated transmembrane transport of the ligand

complex. The method is used for imaging tissues in vivo.

IT 170170-72-6P

(diagnostic agent-ligand complex in compn. and method for tumor

imaging, and prepn. thereof)

RN 170170-72-6 USPATFULL

CN L-Glutamine, N2-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-
 pteridiny)methyl]amino]benzo yl]-N-(6,17,28-trihydroxy-7,10,18,21,29-
 pentaoso-6,11,17,22,28-pentaazatriacont-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

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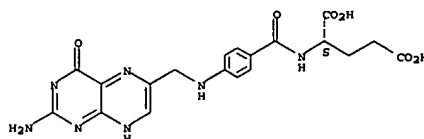
L24 ANSWER 41 OF 71 USPATFULL (Continued)

L24 ANSWER 42 OF 71 USPATFULL

ACCESSION NUMBER: 97:78345 USPATFULL
 TITLE: Nucleophilic polysubstituted aryl acridinium ester conjugates and syntheses thereof
 INVENTOR(S): Law, Say-Jong, Westwood, MA, United States
 PATENT ASSIGNEE(S): Chiron Diagnostics Corporation, Malpole, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5663074		19970902
APPLICATION INFO.:	US 1993-32947		19930317 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-871601, filed on 17 Apr 1992 which is a continuation of Ser. No. US 1988-249620, filed on 26 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Woodward, Michael P.		
LEGAL REPRESENTATIVE:	Morgenstern, Arthur S., Blackburn, Robert P., Klee, Maurice M.		
NUMBER OF CLAIMS:	53		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 15 Drawing Page(s)		
LINE COUNT:	1554		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB This invention is directed to novel nucleophilic polysubstituted aryl acridinium conjugates and the methods for preparation thereof. The novel nucleophilic polysubstituted aryl acridinium conjugates are useful in biological assays, including novel assays for the determination of Vitamin B.sub.12, folate, cortisol, estradiol, and thromboxane B.sub.2.			
IT 59-30-3, Folic acid, analysis (nucleophilic polysubstituted aryl acridinium ester conjugates prepn. as labels for binding assays)			
RN 59-30-3 USPATFULL			
CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)			

Absolute stereochemistry.

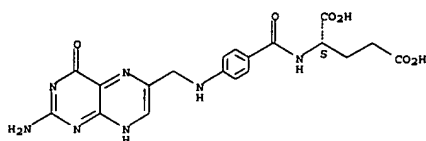


IT 59-30-3DP, Folic acid, acridinium ester conjugates
 196080-96-3P
 (nucleophilic polysubstituted aryl acridinium ester conjugates prepn. as labels for binding assays)

L24 ANSWER 42 OF 71 USPATFULL (Continued)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

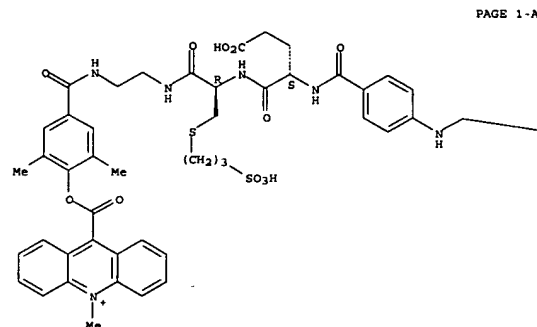
Absolute stereochemistry.



RN 196080-96-3 USPATFULL
 CN L-Cysteineamide, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-

pteridiny]methyl]amino]benzoyl]-L-.alpha.-glutamyl-N-[2-[[[3,5-dimethyl-4-[[[10-methylacridinium-9-yl]carbonyl]oxy]benzoyl]amino]ethyl]-S-(3-sulfopropyl)-, bromide (9CI) (CA INDEX NAME)

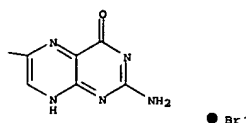
Absolute stereochemistry.



PAGE 1-A

L24 ANSWER 42 OF 71 USPATFULL (Continued)

PAGE 1-B



L24 ANSWER 43 OF 71 USPATFULL
 ACCESSION NUMBER: 97:36172 USPATFULL
 TITLE: Method of treating HIV infection and related secondary infections with defibrotide
 INVENTOR(S): Burcoglu, Arsinur, 213 Sweetgum Rd., Pittsburgh, PA, United States 15238
 Wagner, Marc, 4201 Greensburg Pike, Pittsburgh, PA, United States 15221

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5624912		19970429
APPLICATION INFO.:	US 1994-185416		19940124 (8)
RELATED APPL. INFO.:	Continuation-in-part of Ser. No. US 1991-748277, filed on 21 Aug 1991, now abandoned And Ser. No. US 1993-2395, filed on 13 Jan 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Crouch, Deborah		
LEGAL REPRESENTATIVE:	Banner & Witcoff, Ltd.		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	2148		

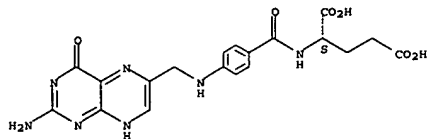
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Oligonucleotides, polynucleotides and derivatives thereof, such as defibrotide, are agents of genetic modulation at the levels of transcription, translation, secondary messengers and cellular signal transduction systems. Such agents can be used to treat HIV infection. Preferably, treatment involves modifying the dose of such agents in response to observed fluctuations (e.g., increase, decrease, appearance, disappearance) in normal, disease and repair markers.

IT 59-30-3, Folic acid, biological studies (folate endocytic pathway; defibrotide or other oligo- or polynucleotides for treating HIV infection and related secondary infections, and dose modification with marker fluctuation)

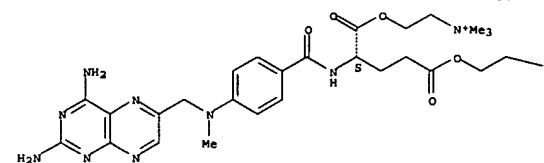
RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 44 OF 71 USPATFULL (Continued)

PAGE 1-A



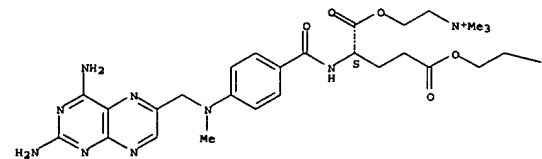
PAGE 1-B

N⁺Me₃

IT 154294-66-3P
 (prepn. of, as drug-chem. modifier conjugate through physiol. cleavable linkage, for enhanced drug transport across membranes)
 RN 154294-66-3 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzo yl]-, bis[2-(trimethylammonio)ethyl] ester, dibromide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● 2 Br⁻

L24 ANSWER 44 OF 71 USPATFULL
 ACCESSION NUMBER: 97:17918 USPATFULL
 TITLE: Compositions and methods for enhanced drug delivery
 INVENTOR(S): Hale, Ron L., Woodside, CA, United States
 Lu, Amy, Los Altos, CA, United States
 Solas, Dennis, San Francisco, CA, United States
 Selick, Harold E., Belmont, CA, United States
 Oldenburg, Kevin R., Fremont, CA, United States
 Zaffaroni, Alejandro C., Atherton, CA, United States
 Affymax Technologies N.V., Middlesex, England corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5607691		19970304
APPLICATION INFO.:	US 1995-449188		19950524 (8)
RELATED APPL. INFO.:	Continuation of Ser. No. US 1993-164293, filed on 9 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-898219, filed on 12 Jun 1992, now abandoned		

And

a continuation-in-part of Ser. No. US 1993-9463, filed on 27 Jan 1993, now abandoned

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Levy, Neil S.
 LEGAL REPRESENTATIVE: Stevens, Lauren L.
 NUMBER OF CLAIMS: 5
 EXEMPLARY CLAIM: 1
 LINE COUNT: 5349

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods of delivering pharmaceutical agents across membranes, including the skin layer or mucosal membranes of a patient. A pharmaceutical agent is covalently bonded to a chemical modifier, via a physiologically cleavable bond, such that the membrane transport and delivery of the agent is enhanced.

IT 154294-67-4P
 (prepn. and reaction of, in prepn. of drug-chem. modifier conjugate through physiol. cleavable bond for enhanced drug transport across membranes)

RN 154294-67-4 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzo yl]-, bis[2-(trimethylammonio)ethyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

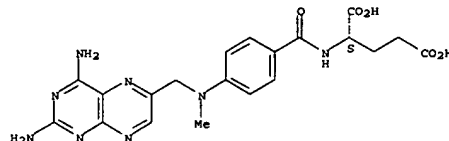
L24 ANSWER 44 OF 71 USPATFULL (Continued)

PAGE 1-B

N⁺Me₃

IT 59-05-2, Methotrexate
 (reaction of, in prepn. of drug-chem. modifier conjugate through physiol. cleavable bond for enhanced drug transport across membranes)
 RN 59-05-2 USPATFULL
 CN L-Glutamic acid,
 N-[4-[[[(2,4-diamino-6-pteridiny)methyl]methylamino]benzo yl]-, bis[2-(trimethylammonio)ethyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L24 ANSWER 45 OF 7 MEDLINE MEDLINE DUPLICATE 1
ACCESSION NUMBER: 97467986 MEDLINE
DOCUMENT NUMBER: 97467986 PubMed ID: 9327130
TITLE: Design and synthesis of [111n]DTPA-zolate for
use as a tumor-targeted radiopharmaceutical.
AUTHOR: Wang S; Luo J; Lantrip D A; Waters D J; Mathias C J; Green
M A; Puchs P L; Low P S
CORPORATE SOURCE: Department of Chemistry, Purdue University, West
Lafayette,
Indiana 47907, USA.
CONTRACT NUMBER: P30-CA23168 (NCI)
R01-CA70845 (NCI)
SOURCE: BIOCONJUGATE CHEMISTRY, (1997 Sep-Oct) 8 (5) 673-9.
Journal code: 9010319. ISSN: 1043-1802.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199711
ENTRY DATE: Entered STN: 19980109
Last Updated on STN: 19990129
Entered Medline: 19971128

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AB Folate-conjugated metal chelates have been proposed as potential imaging agents for cancers that overexpress folate receptors. In a previous study, folic acid was linked through its gamma-carboxyl group to deferoxamine (DP), and the 67Ga-labeled complex ([67Ga]DP-folate) was examined for *in vivo* tumor targeting in a murine model of human epithelial tumor cell implant. Although superb tumor-to-background contrast was obtained, slow hepatobiliary clearance would compromise imaging of abdominal tumors such as ovarian cancer. In the present study, folic acid was conjugated to an alternative chelator, diethylenetriaminepentaacetic acid (DTPA), via an ethylenediamine spacer. The desired DTPA-folate (gamma) regioisomer was synthesized by two different approaches, purified by reversed phase column chromatography, and characterized mainly by analytical HPLC, mass spectroscopy, and NMR. In cultured tumor cells, uptake of [111In]DTPA-folate (gamma) was found to be specific for folate receptor-bearing cells, and the kinetics of uptake were similar to free folate. In contrast to our previous results, gamma-conjugated molecules. In the normal rat, intravenously administered [111In]DTPA-folate (gamma) was found to be rapidly excreted into the urine, giving intestinal levels of radiotracer 10-fold lower than those observed with [67Ga]DP-folate (gamma) at 4 h. In a preliminary mouse imaging study, a folate receptor-positive KB cell tumor was clearly visualized by gamma scintigraphy 1 h following intravenous administration of [111In]DTPA-folate (gamma).

L24 ANSWER 46 OF 71 USPATFULL
 961018664 USPATFULL
 ACCESSION NUMBER:
 In vivo binding pair pretargeting
 TITLE:
 Pomato, Nicholas, Frederick, MD, United States
 McCabe, Richard P., West Chester, PA, United States
 Hawkins, Gregory A., Hastings, NE, United States
 Federhorst, Reinhard, Hamburg, Germany, Federal
 Republic of
 Kim, Chong-Ho, Rockville, MD, United States
 Vogel, Carl-Wilhelm E., Hamburg, Germany, Federal
 Republic of
 PATENT ASSIGNER(S):
 Akzo,N.V., Arnhem, Netherlands (non-u.s. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5578289		19961126
	WO 9317707		19930916
APPLICATION INFO.:	US 1993-140186		19931104 (8)
	WO 1993-US1858		19930303
			19931104
			19931104
RELATED APPL. INFO.:	Continuation-in-part of Ser. No. US 1992-846453, filed on 4 Mar 1992, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Ceperley, Mary E.		
LEGAL REPRESENTATIVE:	Blackstone, William M., Gormley, Mary E.		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 13 Drawing Page(s)		
LINE COUNT:	995		

AB A method for in-vivo targeting a functional moiety in a patient by administering a targeting moiety coupled to an affinity component, wherein the targeting moiety is an affinity for binding sites in a target area, and administering a binding partner coupled to the affinity component to a functional moiety to localize the functional moiety in the target area. Preferably the targeting moiety is an antibody and the functional moiety is a radiometal when performing in vivo imaging or therapy. The affinity component may be a novel methotrexate analog.

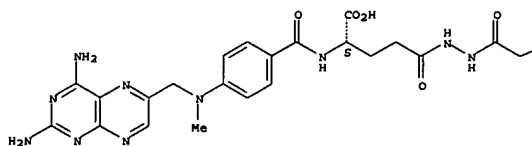
IT 151395-94-7DP, 111-in complex. The reagent may be a novel methionine analog.
(binding partner pretargeting with targeting moiety-affinity component
conjugate and affinity component binding partner-functional moiety
conjugate, and conjugate prepn.)

RN 151395-94-7 USPATFUL-17
CN 3,6,9-12,13-Pentazaoctadecanedioic acid,
3,6,9-tris(carboxymethyl)-17-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-11,14-
dioxo-, (17S): (9CI) [CA INDEX NAME]

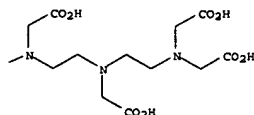
Absolute stereochemistry.

L24 ANSWER 46 OF 71 USPATFULL (Continued)

PAGE 1-A



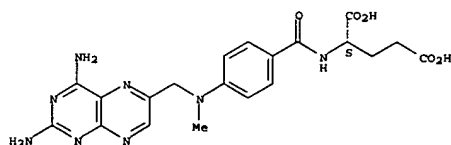
PAGE 1-B



IT 59-05-2D, Methotrexate, effector mol. conjugates
(binding pair pretargeting with targeting moiety-affinity component
conjugate and affinity component binding partner-functional moiety
conjugate, and conjugate prepn.)

RN 59-05-2 USPSTFULL
CN L-Glutamic acid,
N-[4-[[2,4-diamino-6-pteridiny]methyl)methylamino]benzo
yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 151395-94-7P (prepn and reaction; binding pair pretargeting with targeting moiety;affinity component conjugate and affinity component binding partner-functional moiety conjugate, and conjugate prepn.)

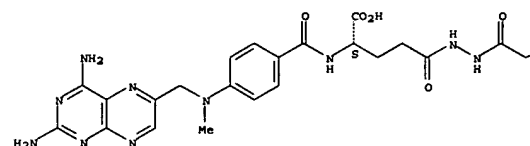
RN 151395-94-7 USPATAFULL

CN 3,6,9,12,13-PENTAAZAOCTADECANEDIOIC ACID,
3,6,9-tris(carboxymethyl)-17-[[4-
[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-11,14-

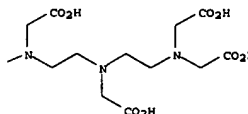
L24 ANSWER 46 OF 71 USPATFULL (Continued)
dioxo-, (17S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

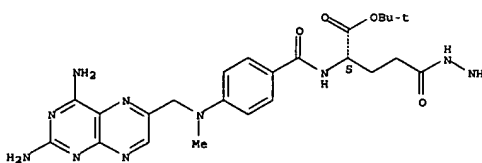


IT 79640-69-0

(reaction; binding pair pretargeting with targeting moiety-affinity component conjugate and affinity component binding partner-functional moiety conjugate, and conjugate prep.)

RN 79640-69-0 USPATFULL
CN L-Glutamic acid,
N-[4-[[[2,4-diamino-6-pteridyl)methyl]methylamino]benzo
yl]-, 1-(1,1-dimethylethyl) ester, 5-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry



L24 ANSWER 47 OF 71 USPATFULL
 ACCESSION NUMBER: 96:82464 USPATFULL
 TITLE: Delivery of therapeutic agents to receptors using polysaccharides
 INVENTOR(S): Gorman, Ernest V., Brookline, MA, United States
 Menz, Edward T., Quincy, MA, United States
 Enriquez, Philip M., Sheltonville, MA, United States
 Jung, Chu, Arlington, MA, United States
 Lewis, Jerome M., Newton, MA, United States
 Josephson, Lee, Arlington, MA, United States
 PATENT ASSIGNEE(S): Advanced Magnetics, Inc., Cambridge, MA, United States (U.S. corporation)

NUMBER	KIND	DATE
US 5554386		19960910
US 1994-260551		19940616 (8)

APPLICATION INFO.: Continuation-in-part of Ser. No. US 1992-900686, filed on 17 Jun 1992, now patented, Pat. No. US 5478576

which is a continuation-in-part of Ser. No. US 1992-936873, filed on 27 Aug 1992, now patented, Pat. No. US 5336506

which is a continuation of Ser. No. US 1990-630017, filed on 19 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1991-679526, filed on 2 Apr 1991, now patented, Pat. No. US 5141739 which is a continuation of Ser. No. US 1989-384991, filed on 2 Jul 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-228640, filed on 4 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-67586, filed on 26 Jun 1987, now patented, Pat. No. US 4827945

which is a continuation-in-part of Ser. No. US 1986-882044, filed on 3 Jul 1986, now patented, Pat. No. US 4770183

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Kishore, Gollamudi S.
 LEGAL REPRESENTATIVE: Bromberg & Sunstein
 NUMBER OF CLAIMS: 17
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
 LINE COUNT: 1061

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a method of directing a therapeutic agent to selected cells, wherein a complex is formed between a polysaccharide capable of interacting with a cell receptor and a therapeutic agent.

The resulting complex is administered to a subject, and permitted to be internalized into the selected cells through a process known as receptor mediated endocytosis (RME). The polysaccharide may be, for example, arabinogalactan, gum arabic, mannan or hydrolysis products thereof; the therapeutic agent may be, for example, an antiviral agent, a nucleic acid, hormone, steroid, antibody, chemoprotective or radioprotective agent. The cell receptor may be for example, the asialoglycoprotein

L24 ANSWER 48 OF 71 USPATFULL
 ACCESSION NUMBER: 96:65493 USPATFULL
 TITLE: Nucleophilic polysubstituted aryl acridinium ester conjugates uses thereof
 INVENTOR(S): Law, Say-Jong, Westwood, MA, United States
 Chang, Steve C. S., Franklin, MA, United States
 Klukas, Carol K., Pittsburgh, PA, United States
 Vitkauskas, Christine A., North Attleboro, MA, United States
 PATENT ASSIGNEE(S): Ciba Corning Diagnostics Corp., Medfield, MA, United States (U.S. corporation)

NUMBER	KIND	DATE
US 5538901		19960723
US 1994-292946		19940818 (8)

APPLICATION INFO.: Continuation of Ser. No. US 1993-32085, filed on 17 Mar 1993, now abandoned which is a division of Ser. No. US 1992-871601, filed on 17 Apr 1992, now patented, Pat. No. US 5241070, issued on 13 Aug 1993 which is a continuation of Ser. No. US 1988-249620, filed on 26 Sep 1988, now abandoned

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Spiegel, Carol A.
 LEGAL REPRESENTATIVE: Morgenstern, Arthur S., Roessler, Judith A.
 NUMBER OF CLAIMS: 15
 EXEMPLARY CLAIM: 15
 NUMBER OF DRAWINGS: 18 Drawing Figure(s); 15 Drawing Page(s)
 LINE COUNT: 1444

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

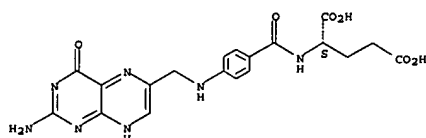
AB This invention is directed to the novel assay methods utilizing nucleophilic polysubstituted aryl acridinium ester conjugates as the tracers. Conjugates prepared by covalent coupling of novel nucleophilic polysubstituted aryl acridinium esters with biological compounds including small organic molecules such as Vitamin B12, folate, cortisol, estradiol, and thromboxane B2, were found useful in the development of highly sensitive assays for the analytes of diagnostic interest.

IT 59-30-3, analysis (detrn. of, with folate-acridinium ester deriv. conjugate)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino)benzoyl]- (9CI) (CA INDEX NAME)

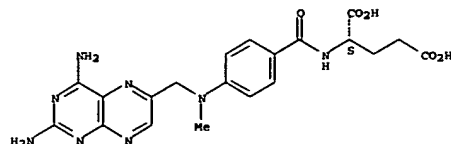
Absolute stereochemistry.



IT 59-30-3DP, derivs., conjugates with acridinium ester deriva.

L24 ANSWER 47 OF 71 USPATFULL (Continued)
 receptor or the mannose receptor.
 IT 59-05-2, Methotrexate (drug delivery to receptors using polysaccharides)
 RN 59-05-2 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2,4-diamino-6-pteridiny]methyl)methylamino]benzo yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

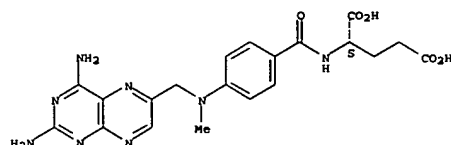


IT 59-05-2DP, Methotrexate, reaction products with polysaccharides (drug delivery to receptors using polysaccharides)

RN 59-05-2 USPATFULL

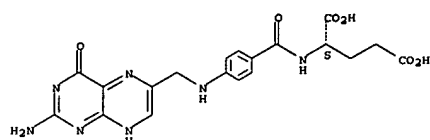
CN L-Glutamic acid, N-[4-[[[(2,4-diamino-6-pteridiny]methyl)methylamino]benzo yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 48 OF 71 USPATFULL (Continued)
 [prepn. of, for folate detrn.]
 RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino)benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 49 OF 71 USPATFULL
 ACCESSION NUMBER: 96:60704 USPATFULL
 TITLE: 5,10-methylene-tetrahydrofolate as a modulator of a chemotherapeutic agent
 INVENTOR(S): Spears, Colin P., Glendale, CA, United States
 Gustavsson, Bengt G., Goteborg, Sweden
 PATENT ASSIGNEE(S): University of Southern California, Los Angeles, CA, United States (U.S. corporation)

NUMBER	KIND	DATE
US 5534519		19960709
US 1994-326414		19941020 (8)

APPLICATION INFO.: Division of Ser. No. US 1993-174571, filed on 23 Dec 1993, now patented, Pat. No. US 5376658 which is a continuation of Ser. No. US 1991-789729, filed on 12 Nov 1991, now abandoned which is a

continuation-in-part of Ser. No. US 1990-521712, filed on 11 May 1990, now abandoned

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Criares, Theodore J.
 NUMBER OF CLAIMS: 12
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
 LINE COUNT: 1440

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the compound 5,10-methylene-tetrahydrofolate (CH.sub.2 PH.sub.4), and its solution product isomer PH.sub.4, therapeutic uses of these compounds, and compositions thereof.

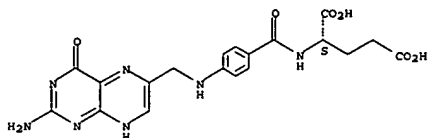
CH.sub.2 PH.sub.4 and PH.sub.4 strongly modulate the in vivo antitumor effects of 5-Fluorouracil.

IT 59-30-3, Folic acid, biological studies (deficiency of, treatment of, methylenetetrahydrofolate for)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 59-05-2, Methotrexate
 (toxicity of, methylenetetrahydrofolate for decrease of)

RN 59-05-2 USPATFULL

L24 ANSWER 50 OF 71 USPATFULL
 ACCESSION NUMBER: 94:11301 USPATFULL
 TITLE: 5,10-methylene-tetrahydrofolate as a modulator of a chemotherapeutic agent
 INVENTOR(S): Spears, Colin P., Glendale, CA, United States
 Gustavsson, Bengt G., Gothenburg, Sweden
 PATENT ASSIGNEE(S): University of Southern California, Los Angeles, CA, United States (U.S. corporation)

NUMBER	KIND	DATE
US 5376658		19941227
US 1993-174571		19931223 (8)

APPLICATION INFO.: Continuation of Ser. No. US 1991-789729, filed on 12 Nov 1991, now abandoned which is a

continuation-in-part of Ser. No. US 1990-521712, filed on 11 May 1990, now abandoned

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Cintins, Marianne M.
 ASSISTANT EXAMINER: Criares, T. J.
 LEGAL REPRESENTATIVE: Robbins, Berliner & Carson
 NUMBER OF CLAIMS: 26
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
 LINE COUNT: 1614

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the compound 5,10-methylene-tetrahydrofolate (CH.sub.2 PH.sub.4), and its solution product isomer PH.sub.4, therapeutic uses of these compounds, and compositions thereof.

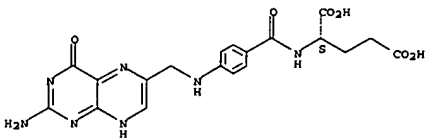
CH.sub.2 PH.sub.4 and PH.sub.4 strongly modulate the in vivo antitumor effects of 5-Fluorouracil.

IT 59-30-3, Folic acid, biological studies (deficiency of, treatment of, methylenetetrahydrofolate for)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



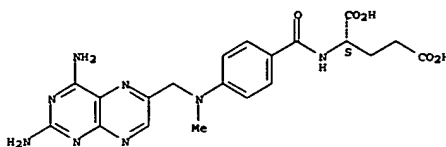
IT 59-05-2, Methotrexate
 (toxicity of, methylenetetrahydrofolate for decrease of)

RN 59-05-2 USPATFULL

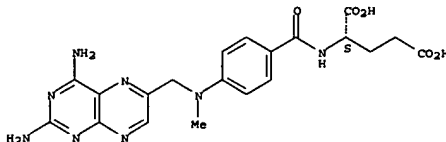
CN L-Glutamic acid,
 N-[4-[(2,4-diamino-6-pteridiny]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

L24 ANSWER 49 OF 71 USPATFULL (Continued)
 CN L-Glutamic acid,
 N-[4-[(2,4-diamino-6-pteridiny]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 50 OF 71 USPATFULL (Continued)
 Absolute stereochemistry.



L24 ANSWER 51 OF 71 USPATFULL
 ACCESSION NUMBER: 94:68598 USPATFULL
 TITLE: Targeting of therapeutic agents using polysaccharides
 INVENTOR(S): Josephson, Lee, Arlington, MA, United States
 Groman, Ernest V., Brookline, MA, United States
 Jung, Chu, Arlington, MA, United States
 Lewis, Jerome M., Newton, MA, United States
 PATENT ASSIGNEE(S): Advanced Magnetics Inc., Cambridge, MA, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5336506		19940809
APPLICATION INFO.:	US 1992-936873		19920827 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1990-630017, filed on 19 Dec 1990, now abandoned which is a		
continuation-in-part	of Ser. No. US 1991-679526, filed on 2 Apr 1991, now patented, Pat. No. US 5141739 And a continuation-in-part of Ser. No. US 1989-384991, filed on 2 Jul 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-228640, filed on 4 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-67586, filed on 26 Jun 1987, now patented, Pat. No. US 4827945		

which is a continuation-in-part of Ser. No. US 1986-882044, filed on 3 Jul 1986, now patented, Pat. No. US 4770183

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Kishore, G. S.
 LEGAL REPRESENTATIVE: Bromberg & Sunstein
 NUMBER OF CLAIMS: 13
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
 LINE COUNT: 544

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a method for the targeting of a therapeutic agent to a specific population of cells, wherein a complex is formed between the therapeutic agent and a polysaccharide capable of interacting with a cell receptor, and wherein the resulting complex is internalized into the cell by receptor mediated endocytosis (RME). In one embodiment of the invention, a complex of a therapeutic agent containing iron and the polysaccharide arabinogalactan may be formed

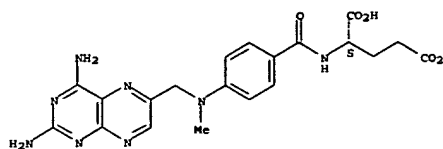
and used to deliver iron specifically to hepatocytes by RME.

IT 59-05-2, Methotrexate
 (drug delivery to receptors using polysaccharides)

RN 59-05-2 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

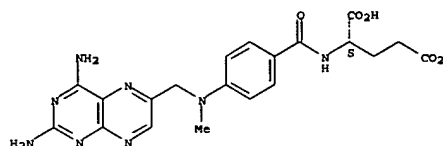
L24 ANSWER 51 OF 71 USPATFULL (Continued)



IT 59-05-2DP, Methotrexate, reaction products with polysaccharides
 (drug delivery to receptors using polysaccharides)

RN 59-05-2 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 52 OF 71 USPATFULL
 ACCESSION NUMBER: 94:44559 USPATFULL
 TITLE: Catalytic and reactive polypeptides and methods for their preparation and use
 INVENTOR(S): Schultz, Peter, Oakland, CA, United States
 PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5314817		19940524
APPLICATION INFO.:	US 1992-988652		19921210 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1989-404920, filed on 8 Sep 1989, now patented, Pat. No. US 5215089 which is a continuation-in-part of Ser. No. US 1988-273455, filed on 18 Nov 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Patterson, Jr., Charles L.		
LEGAL REPRESENTATIVE:	Townsend and Townsend Khourie and Crew		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 19 Drawing Page(s)		
LINE COUNT:	2126		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Catalytic and reactive polypeptides include a binding site specific for a reactant or reactive intermediate involved in a chemical reaction of interest. The polypeptides further include at least one active functionality proximate the binding site, where the active

functionality is capable of catalyzing or chemically participating in the chemical reaction in such a way that the reaction rate is enhanced. Methods for preparing the catalytic peptides include chemical synthesis, site-directed mutagenesis of antibody and enzyme genes, covalent attachment of the functionalities through particular amino acid side chains, and the like.

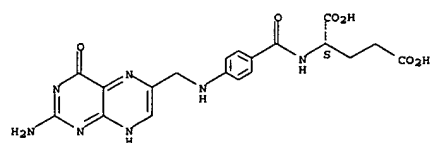
This invention was made with Government support under Grant Contract

No. AI-24695, awarded by the Department of Health and Human Services, and under Grant Contract No. N 00014-87-K-0256, awarded by the Office of Naval Research. The Government has certain rights in this invention.

IT 59-30-3, biological studies
 (cofactor for, catalytic antibodies)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 52 OF 71 USPATFULL (Continued)

L24 ANSWER 53 OF 71 USPATFULL
 ACCESSION NUMBER: 94:30969 USPATFULL
 TITLE: Catalytic and reactive polypeptides and methods for their preparation and use
 INVENTOR(S): Schultz, Peter, Oakland, CA, United States
 PATENT ASSIGNEE(S): Regents of the University of California, Berkeley, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5302516		19940412
APPLICATION INFO.:	US 1992-988643		19921210 (7)
DISCLAIMER DATE:	20100601		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1989-404920, filed on 8 Sep		
DOCUMENT TYPE:	1989 which is a continuation-in-part of Ser. No. US 1988-273455, filed on 18 Nov 1988, now abandoned		
FILE SEGMENT:	Utility		
PRIMARY EXAMINER:	Patterson, Jr., Charles L.		
LEGAL REPRESENTATIVE:	Townsend and Townsend Khourie and Crew		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 19 Drawing Page(s)		
LINE COUNT:	2230		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Catalytic and reactive polypeptides include a binding site specific for a reactant or reactive intermediate involved in a chemical reaction of interest. The polypeptides further include at least one active functionality proximate the binding site, where the active functionality

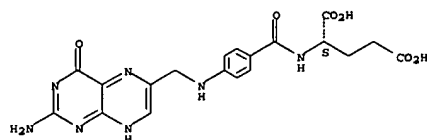
is capable of catalyzing or chemically participating in the chemical reaction in such a way that the reaction rate is enhanced. Methods for preparing the catalytic peptides include chemical synthesis, site-directed mutagenesis of antibody and enzyme genes, covalent attachment of the functionalities through particular amino acid side chains, and the like.

IT 59-30-3, biological studies

(cofactor for, catalytic antibodies)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 54 OF 71 USPATFULL
 ACCESSION NUMBER: 94:13523 USPATFULL
 TITLE: Difluoroglutamic acid conjugates with folates and anti-folates for the treatment of neoplastic diseases
 INVENTOR(S): Bey, Philippe, Cincinnati, OH, United States
 Coward, James K., Ann Arbor, MI, United States
 McGuire, John J., Kenmore, NY, United States
 PATENT ASSIGNEE(S): The Regents of the University of Michigan, Ann Arbor, MI, United States (U.S. corporation)
 Health Research, Inc., Buffalo, NY, United States (U.S. corporation)
 Merrill Dow Pharmaceuticals Inc., Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5286726		19940215
APPLICATION INFO.:	US 1990-508873		19900412 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Daus, Donald G.		
LEGAL REPRESENTATIVE:	Mack, Anna E., Dunn, Michael L.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIMS:	1		
LINE COUNT:	625		

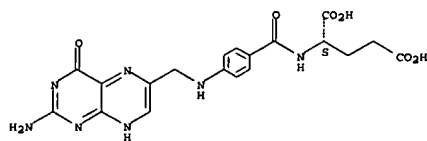
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to certain conjugates of folates and antifolates with difluoroglutamic acid which are useful in the treatment of patients suffering from certain neoplastic diseases including leukemia, melanomas, carcinomas, sarcomas and mixed neoplasias.

IT 59-30-3DP, difluoroglutamic acid-contg. analogs (prepn. of, for treatment of tumors and/or psoriasis)

RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 55 OF 71 USPATFULL (Continued)

ACCESSION NUMBER: 1994:239683 CAPLUS
 DOCUMENT NUMBER: 120:239683
 TITLE: Preparation of controlled-size inorganic particles for use in separations, assays, as magnetic molecular switches, and as inorganic liposomes for medical applications
 INVENTOR(S): Chagnon, Mark S.; Carter, Michelle J.; Ferris, John R.; Gray, Maria A.; Hamilton, Tracy J.; Rudd, Edwin A.

PATENT ASSIGNEE(S): Molecular Bioquest, Inc., USA
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9326019	A1	19931223	WO 1993-US5595	19930608

W: CA, JP
 RM: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

US 5935866 A 19990810 US 1992-894260 19920608
 US 5389377 A 19950214 US 1992-958646 19921007
 US 5441746 A 19950815 US 1993-57687 19930505
 EP 645048 A1 19950329 EP 1993-915304 19930608

R: DE, FR, GB, SE
 JP 08500700 T2 19960123 JP 1993-501742 19930608

PRIORITY APPLN. INFO.: US 1992-894260 19920608
 US 1992-911962 19920710
 US 1992-958646 19921007
 US 1993-57687 19930505
 US 1989-455071 19891222
 US 1990-556169 19900810
 US 1990-556169 19900810
 WO 1993-US5595 19930608

AB Inorg. oxides of substantially uniform particle size distribution are prepd. by contacting sq. solns. of an inorg. salt and an inorg. base across a porous membrane, wherein the membrane contains pores which allow for pptn. of a substantially monodispersed size of inorg. oxide particles on one side of the membrane and pptn. of a salt of the corresponding base on a second side of the membrane. The prepd. particles can be coated

with an organo-metallic polymer having attached thereto an org. functionality to which a variety of org. and/or biol. mols. can be coupled. The coupled

particles may be used for in vitro or in vivo systems involving sepsis, steps or the directed movement of coupled mols. to particular sites, including immunol. assays, other biol. assays, biochem. or enzymic reactions, affinity chromatog. purifn., cell sorting, and diagnostic and therapeutic uses. In a further embodiment, described herein are liposome

compos. which comprise the substantially uniform size inorg. core coated with an amphipathic org. compd. and further coated with a second amphipathic vesicle-forming lipid. Also disclosed are novel Ph lipid

compos. which serve as the vesicle-forming lipid. When the magnetic particles are electromagnetic wave-absorbing surface-modified particles, such particles provide for the prepn. of liposome compos. which offer a method for the treatment of cancer, as well as infectious diseases.

Electromagnetic wave-absorbing ferrites were prepd. by the hydroxide gel

L24 ANSWER 55 OF 71 CAPIAUS COPYRIGHT 2002 ACS (Continued)
process from FeCl₃, CaCl₂, and ZnCl₂ or from FeCl₃, FeCl₂, and MnCl₂

using NaOH and O₂. The ferrite particles were coated with oleic acid and then treated with a second layer of Ph lipid prep. from 5-aminoisophthalic acid and methoxypolyoxyethylene imidazole carbonyl. The lipid-coated ferrites and uncoated ferrites (controls) were incubated with MDCK cells grown above a colony of rat neuroblastoma cells and then exposed to a frequency of 20,000 MHz for 3 min. None of the bare ferrite particles were permeable to the MDCK membrane and so had no effect on the cancer cells; the lipid-coated ferrites were permeable, heated up upon exposure to the electromagnetic wave, and killed all the cancer cells. Lipid-coated ferrites (contg. all Fe) that did not absorb electromagnetic waves were able to cross the cell barrier but were unable to kill the neuroblastoma cells.

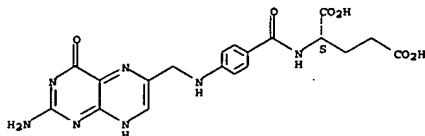
IT 59-30-3, Folate, analysis

RL: ANT (Analyte); ANST (Analytical study)
(detn. of, by immunoassay using inorg. oxide particles coated with organometallic polymer functionalized to bind antibodies)

RN 59-30-3 CAPIAUS

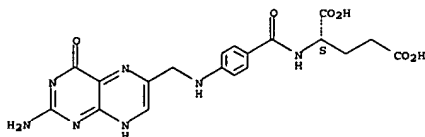
CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 56 OF 71 USPATFULL (Continued)

Absolute stereochemistry.



L24 ANSWER 56 OF 71 USPATFULL

ACCESSION NUMBER: 93:72216 USPATFULL
TITLE: Nucleophilic polysubstituted aryl acridinium esters and

uses thereof
INVENTOR(S): Law, Say-Jong, Westwood, MA, United States
PATENT ASSIGNEE(S): Ciba Corning Diagnostics Corp., Medfield, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5241070		19930831
APPLICATION INFO.:	US 1992-871601		19920417 (7)
DISCLAIMER DATE:	20070417		
RELATED APPL. INFO.:	Continuation of Ser. No. US 1988-249620, filed on 26 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Daus, Donald G.		
LEGAL REPRESENTATIVE:	Morgenshtern, Arthur S., Slepchuk, Jr., Nicholas I.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 15 Drawing Page(s)		
LINE COUNT:	1023		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention is directed to novel nucleophilic polysubstituted aryl acridinium esters and to novel conjugates thereof. The novel nucleophilic polysubstituted aryl acridinium esters and novel conjugates thereof are useful in biological assays, including novel assays for the determination of Vitamin B₁₂, folate, cortisol, estradiol, and thromboxane B₂.

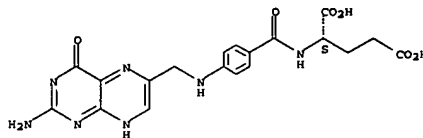
IT 59-30-3, analysis

(detn. of, with folate-acridinium ester deriv. conjugate)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 59-30-3DP, deriva., conjugates with acridinium ester deriva.
(prepn. of, for folate detn.)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 57 OF 71 USPATFULL

ACCESSION NUMBER: 93:44127 USPATFULL
TITLE: Catalytic and reactive polypeptides and methods for their preparation and use

INVENTOR(S): Schultz, Peter, Oakland, CA, United States
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5215889		19930601
APPLICATION INFO.:	US 1989-44920		19890908 (7)
RELATED APPL. INFO.:	Continuation-in-part of Ser. No. US 1988-273455, filed on 18 Nov 1988		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Patterson, Jr., Charles L.		
LEGAL REPRESENTATIVE:	Townsend and Townsend		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	22 Drawing Figure(s); 19 Drawing Page(s)		
LINE COUNT:	2248		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Catalytic and reactive polypeptides include a binding site specific for a reactant or reactive intermediate involved in a chemical reaction of interest. The polypeptides further include at least one active functionality proximate the bi

This invention was made with Government support under Grant Contract

No. AI-24695 awarded by the Department of Health and Human Services, under Grant Contract No. N 00014-87-K-0256, awarded by the Office of Naval Research. The Government has certain rights in this invention, under Grant Contract CHE 8822412 awarded by the National Science Foundation, and under Grant Subcontract C87-101226 awarded by the Department of Energy.

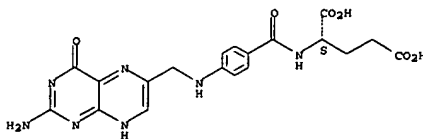
IT 59-30-3, biological studies

(cofactor for, catalytic antibodies)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 58 OF 71 USPATFULL
 ACCESSION NUMBER: 92:104975 USPATFULL
 TITLE: Stable injectable pharmaceutical formulation for folic acid and leucovorin salts and method
 INVENTOR(S): Haeger, Bruce E., Highland Mills, NY, United States
 PATENT ASSIGNEE(S): American Cyanamid Company, Stamford, CT, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5173488		19921222
APPLICATION INFO.:	US 1991-696335		19910501 (7)
RELATED APPLW. INFO.:	Continuation of Ser. No. US 1989-396573, filed on 21 Aug 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Bond, Robert T.		
LEGAL REPRESENTATIVE:	Szatkowski, Thomas S.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	943		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Injectable aqueous compositions comprising folic acid and leucovorin and

their salts, optionally including benzyl alcohol, sodium chloride and agents for adjusting pH are stabilized and buffered in the range of 6

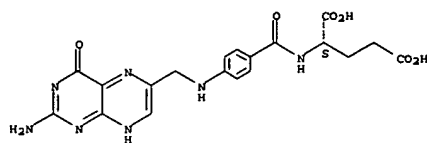
to 10 by adding a combination of tromethamine and monothioglycerol. Such compositions remain stable for prolonged periods even when exposed to sunlight.

IT 59-30-3D, Folic acid, salts 6484-89-5, Sodium folate (injection formulations contg. leucovorin and)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino)benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 6484-89-5 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino)benzoyl]-, monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 59 OF 71 USPATFULL
 ACCESSION NUMBER: 92:78877 USPATFULL
 TITLE: Methods, compounds, and compositions for immunosuppression
 INVENTOR(S): Ando, Dale G., Walnut Creek, CA, United States
 Levenson, Corey H., Oakland, CA, United States
 Braude, Irwin, Vallejo, CA, United States
 PATENT ASSIGNEE(S): Cetus Corporation, Emeryville, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5149688		19920922
APPLICATION INFO.:	US 1990-513983		19900424 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Waddell, Frederick E.		
ASSISTANT EXAMINER:	Fay, Zohreh A.		
LEGAL REPRESENTATIVE:	Bortner, Scott R., Giotta, Gregory J., Wong, Mean		

King

NUMBER OF CLAIMS: 2

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 15 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT: 1044

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention is in the area of immunology, and specifically relates to

immunopharmacology as applied to the development of immunosuppressive compositions and methods of use thereof for treating a wide variety of diseases arising from abnormal or undesirable normal immune responses. Compositions and methods of using the same that are particularly useful in treating autoimmune diseases are shown.

IT 59-05-2, Methotrexate 59-05-2D, Methotrexate, derive.

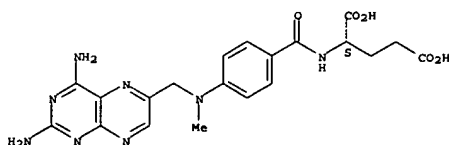
59-30-3D, Folic acid, analogs (acetacetylcarboxylic acid or succinylacetone combined with, as immunosuppressant)

RN 59-05-2 USPATFULL

CN L-Glutamic acid.

N-[4-[[[(2,4-diamino-6-pteridiny]methyl]methylamino)benzo yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



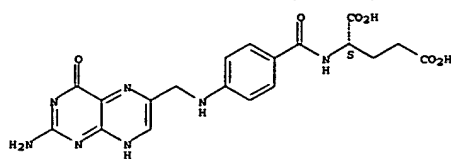
RN 59-05-2 USPATFULL

CN L-Glutamic acid.

N-[4-[[[(2,4-diamino-6-pteridiny]methyl]methylamino)benzo yl]- (9CI) (CA INDEX NAME)

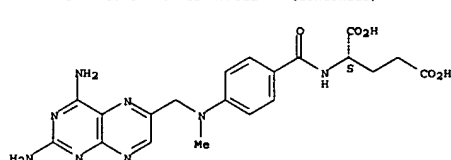
Absolute stereochemistry.

L24 ANSWER 58 OF 71 USPATFULL (Continued)



• Na

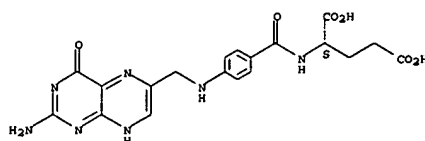
L24 ANSWER 59 OF 71 USPATFULL (Continued)



RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]methylamino)benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 60 OF 71 USPATFULL
 ACCESSION NUMBER: 91:94726 USPATFULL
 TITLE: Difluoroglutaric acid conjugates with folates and anti-folates for the treatment of neoplastic diseases
 INVENTOR(S): Bey, Philippe, Cincinnati, OH, United States
 Kolb, H. Michael, Cincinnati, OH, United States
 PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals Inc., Cincinnati, OH, United States (U.S. corporation)

NUMBER	KIND	DATE
US 5066828		19911119
US 1990-508874		19900412 (7)

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Reamer, James H.
 LEGAL REPRESENTATIVE: Nesbitt, Stephen L.
 NUMBER OF CLAIMS: 3
 EXEMPLARY CLAIMS: 1
 LINE COUNT: 594

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to certain conjugates of folates and antifolates with difluoroglutaric acid which are useful in the treatment

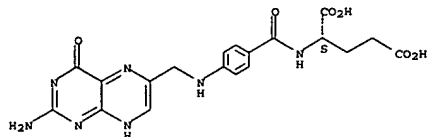
of patients suffering from certain neoplastic diseases including leukemia, melanomas, carcinomas, sarcomas and mixed neoplasias.

IT 59-30-3DP, conjugates with difluoroglutaric acid deriva., preparation (prepn. of)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 62 OF 71 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:127583 CAPLUS
 DOCUMENT NUMBER: 110:127583
 TITLE: Preparation and properties of yttrium and heavy lanthanide complexes with folic acid
 AUTHOR(S): Brzycka, Wanda; Ozga, Wanda
 CORPORATE SOURCE: Inst. Chem., Univ. Marii Curie-Sklodowska, Lublin, Pol.
 SOURCE: Biul. Lubel. Tow. Nauk., Mat.-Fiz.-Chem. (1988), Volume Date 1985, 27(1), 43-51
 CODEN: BLTMDK; ISSN: 0460-2366
 DOCUMENT TYPE: Journal
 LANGUAGE: Polish

AB The formation conditions of Y and heavy lanthanide complexes with folic acid were studied, their compn. and soly. in water at 298 K was detd. and IR and x-ray spectra were recorded. The conditions and products of the thermal decompn. of the obtained complexes in air were examd. Complexes of Y and heavy lanthanides with folic acid with the molar ratio of metal-ligand of 2:3 were prepd. as x-ray amorphous hydrates having 15 mols. of crystn. water. They were very sparingly sol. in H2O, their soly. being of the order of 10-5-10-6 mol-dm-3. On

heating, the hydrates lose crystn. water mols. and form anhyd. salts, which decomp.

to Ln2O3 (Ln = Y, Gd, Dy, Ho, Er, Tm, Yb, Lu) and Tb4O7.

IT 59-30-3DP, rare earth metal complexes

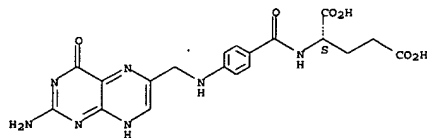
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and thermal decompn. and IR spectrum of)

RN 59-30-3 CAPLUS

CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 61 OF 71 USPATFULL
 ACCESSION NUMBER: 90:54554 USPATFULL
 TITLE: Assay for sulphydryl amino acids and methods for detecting and distinguishing cobalamin and folic acid deficiency
 INVENTOR(S): Allen, Robert H., Englewood, CO, United States
 Stabler, Sally P., Denver, CO, United States
 Lindenbaum, John, New York, NY, United States
 PATENT ASSIGNEE(S): University Patents, Inc., Westport, CT, United States (U.S. corporation)

NUMBER	KIND	DATE
US 4940658		19900710
US 1986-933553		19861120 (6)

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Kepplinger, Esther M.
 ASSISTANT EXAMINER: Scheiner, Toni R.
 LEGAL REPRESENTATIVE: Yahwak & Associates
 NUMBER OF CLAIMS: 34
 EXEMPLARY CLAIM: 18
 NUMBER OF DRAWINGS: 7 Drawing Figure(s); 7 Drawing Page(s)
 LINE COUNT: 2375

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Method for determining levels of sulphydryl amino acids, particularly total homocysteine levels in samples of body tissue from warm-blooded animals, methods of detecting cobalamin and folic acid deficiency using an assay for total homocysteine levels, and methods for distinguishing cobalamin from folic acid deficiency using an assay for total homocysteine levels in conjunction with an assay for methylmalonic acid.

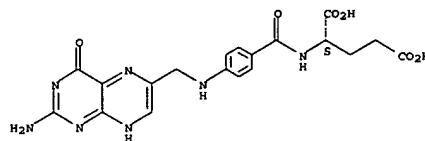
IT 59-30-3, Folic acid, biological studies

(deficiency of, homocysteine and methylmalonate detn. in diagnosis of)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 63 OF 71 USPATFULL
 ACCESSION NUMBER: 87:41588 USPATFULL
 TITLE: Compositions and method for simultaneous multiple array
 INVENTOR(S): Olson, Douglas R., Doylestown, PA, United States
 PATENT ASSIGNEE(S): ICN Micromedex Systems, Inc., Costa Mesa, CA, United States (U.S. corporation)

NUMBER	KIND	DATE
US 4672028		19870609
US 1984-612979		19840523 (6)

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Nucker, Christine M.
 LEGAL REPRESENTATIVE: Lyon & Lyon
 NUMBER OF CLAIMS: 47
 EXEMPLARY CLAIM: 1
 LINE COUNT: 784

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds useful in a simultaneous multiple assay for analytes such as steroids, proteins, peptides, carbohydrates or drugs. The compound or compounds are prepared by labelling an individual analyte with a radioisotope through a chelating agent to form a coordinated compound. The assay uses one or more chelated labelled analytes with one or more labelled analytes wherein each radioisotope

is

different.

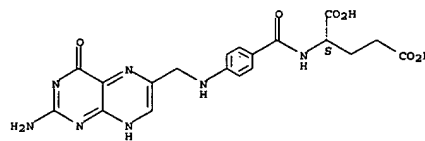
IT 59-30-3, analysis

(detn. of, in simultaneous multiple RIAs, metal isotope chelate labels for)

RN 59-30-3 USPATFULL

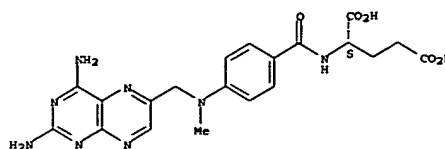
CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 64 OF 71 CAPLAUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1985:2459 CAPLAUS
 DOCUMENT NUMBER: 102:2459
 TITLE: Studies on the nature of transition-metal
 -ion-mediated binding of triazine dyes to enzymes.
 The interaction of Procion Red MX-8B with
 carboxypeptidase
 G-2
 AUTHOR(S): Hughes, Peter; Sherwood, Roger F.; Lowe, Christopher
 R.
 CORPORATE SOURCE: Microb. Technol. Lab., Serv. Cent. Appl. Microbiol.
 Res., Porton Down, UK
 SOURCE: Eur. J. Biochem. (1984), 144(1), 135-42
 CODEN: EJBCHA; ISSN: 0014-2956
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Several reactive azoic dichlorotriazinyl dyes specifically and
 irreversibly inactivate the folate-degrading enzyme
 carboxypeptidase G-2 (I) at a site competitive with methotrexate
 (4-amino-N10-methylfolate) and p-aminobenzoyl-L-glutamate. Although the
 less reactive monochlorotriazinyl dye, Procion Red H-8BN, was unable to
 inactivate I, it was capable of marked inhibition of inactivation by
 dichlorotriazinyl dyes in the presence of Zn2+. Zn2+, and to a lesser
 extent other 1st row transition metal ions, significantly
 enhanced the affinity of Procion Red H-8BN and its analogs Procion Red
 MX-8B and Procion Red MX-2B, for I. Apparently, this effect is mediated
 through the formation of a specific tetracoordinate Zn complex between
 the
 azo linkage and adjacent sulfonate and hydroxyl functions of the dye and
 an appropriate ligand on the protein. I quant. inactivated with
 the dichlorotriazinyl dye Procion Red MX-8B contained .apprx.1 mol
 dye/mol
 subunit of mol. wt. 42,000. Proteolytic cleavage of labeled I and
 resolin.
 of the peptides by reverse-phase HPLC yielded a principal red peptide
 which, on amino acid sequence anal., resulted in the identification of
 the
 dye-binding domain. Apparently, the affinity label Procion Red MX-8B is
 attached to the hydroxylic side chain of threonine-279.
 IT 59-05-2
 RL: BIOL (Biological study)
 (carboxypeptidase G-2 inactivation by Procion Red MX-8B protection by)
 RN 59-05-2 CAPLAUS
 CN L-Glutamic acid,
 N-[4-[[[2,4-diamino-6-pteridiny]methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 64 OF 71 CAPLAUS COPYRIGHT 2002 ACS (Continued)

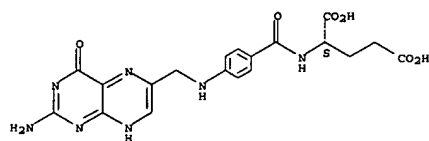
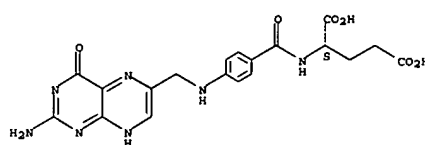


L24 ANSWER 65 OF 71 USPATFULL
 ACCESSION NUMBER: 82:31674 USPATFULL
 TITLE: Process for preparation of folic acid derivatives
 INVENTOR(S): Farina, Peter R., North Salem, NY, United States
 Grattan, James A., Croton-on-Hudson, NY, United States
 PATENT ASSIGNEE(S): Baker Instruments Corp., Wilton, CT, United States
 (U.S. corporation)

NUMBER	KIND	DATE
US 4337339		19820629
US 1979-90059		19791031 (6)
Division of Ser. No. US 1979-34760, filed on 30 Apr 1979, now Defensive Publication No.		

 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Coughlan, Jr., Paul M.
 LEGAL REPRESENTATIVE: Rauchfuss, Jr., George W.
 NUMBER OF CLAIMS: 11
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
 LINE COUNT: 797
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Folic acid derivatives, such as radiolabeled pteroyltyrosine, are
 conveniently synthesized from either pteric acid or by the direct
 condensation of 6-formylpterin with p-aminobenzoyltyrosine methyl
 ester.
 The radioiodinated derivatives are particularly useful in competitive
 protein binding and radioimmuno-assays of folate compounds.
 IT 59-30-3BP, radioactive iodine deriva.
 (prepn. of, for radioimmunoassay)
 RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-
 pteridiny]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 65 OF 71 USPATFULL (Continued)



IT 59-30-3P, preparation
 (radioimmunoassay of, folic acid radioactive iodine deriv. for)
 RN 59-30-3 USPATFULL
 CN L-Glutamic acid, N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-
 pteridiny]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L24 ANSWER 66 OF 71 USPATFULL
 ACCESSION NUMBER: 82:19052 USPATFULL
 TITLE: Process for preparation of folic acid derivatives
 INVENTOR(S): Farina, Peter R., North Salem, NY, United States
 Grattan, James A., Croton-on-Hudson both of, NY,
 United States
 PATENT ASSIGNEE(S): Baker Instruments Corporation, Bethlehem, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4326060		19820420
APPLICATION INFO.:	US 1979-90064		19791031 (6)
RELATED APPLN. INFO.:	Division of Ser. No. US 1979-34760, filed on 30 Apr 1979, now Defensive Publication No.		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Rizzo, Nicholas S.		
LEGAL REPRESENTATIVE:	Rauchfuss, George W.		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	789		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Folic acid derivatives, such as radiolabeled pteroyltyrosine, are conveniently synthesized from either pteric acid or by the direct condensation of 6-formylpterin with p-aminobenzoyltyrosine methyl ester.

The radioiodinated derivatives are particularly useful in competitive protein binding and radioimmuno-assays of folate compounds.

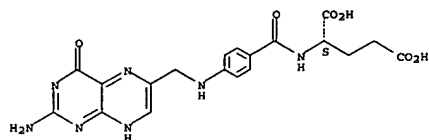
IT 59-30-3DP, radioactive iodine derive.

(prepn. of, for radioimmunoassay)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



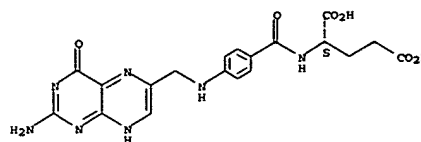
IT 59-30-3P, preparation

(radioimmunoassay of, folic acid radioactive iodine deriv. for)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 66 OF 71 USPATFULL (Continued)
 Absolute stereochemistry.



L24 ANSWER 67 OF 71 USPATFULL
 ACCESSION NUMBER: 82:6924 USPATFULL
 TITLE: Folic acid derivatives and process for preparation
 INVENTOR(S): Farina, Peter R., North Salem, NY, United States
 Grattan, James A., Croton-on-Hudson, NY, United States
 Baker Instruments Corp., Bethlehem, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4314988		19820209
APPLICATION INFO.:	US 1979-90063		19791031 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Nucker, Christine M.		
LEGAL REPRESENTATIVE:	Rauchfuss, Jr., George W.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	804		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Folic acid derivatives, such as radiolabeled pteroyltyrosine, are conveniently synthesized from either pteric acid or by the direct condensation of 6-formylpterin with p-aminobenzoyltyrosine methyl ester.

The radioiodinated derivatives are particularly useful in competitive protein binding and radioimmuno-assays of folate compounds.

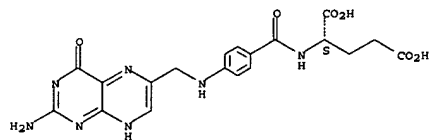
IT 59-30-3, analysis

(detrn. of, by competitive protein binding assay)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 59-30-3D, derive.

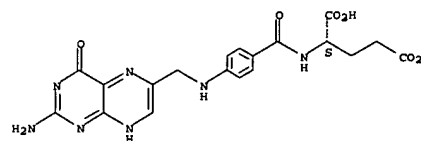
(detrn. of, by competitive protein binding assay or radioimmunoassay)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 67 OF 71 USPATFULL (Continued)



L24 ANSWER 68 OF 71 USPATFULL
 ACCESSION NUMBER: 81:60373 USPATFULL
 TITLE: Folic acid derivatives
 INVENTOR(S): Farina, Peter R., North Salem, NY, United States
 Gratian, James A., Croton-on-Hudson, NY, United States
 PATENT ASSIGNEE(S): Union Carbide Corporation, New York, NY, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4298735		19811103
APPLICATION INFO.:	US 1979-34760		19790430 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Coughlan, Jr., Paul M.		
LEGAL REPRESENTATIVE:	Evans, J. Hart		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	801		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Folic acid derivatives, such as radiolabeled pteroyltyrosine, are conveniently synthesized from either pteric acid or by the direct condensation of 6-formylpterin with p-aminobenzoyltyrosine methyl ester.

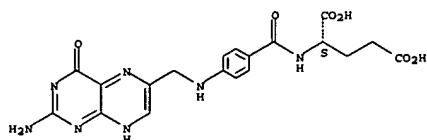
The radiiodinated derivatives are particularly useful in competitive protein binding and radioimmunoassays of folate compounds.

IT 59-30-3DP, radioactive iodine deriv. (prepn. of, for radioimmunoassay)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 59-30-3P, preparation (radioimmunoassay of, folic acid radioactive iodine deriv. for)

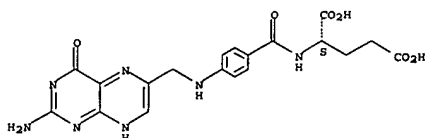
RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

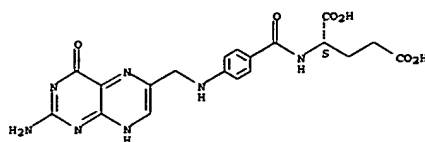
Absolute stereochemistry.

L24 ANSWER 69 OF 71 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:11734 CAPLUS
 DOCUMENT NUMBER: 96:11734
 TITLE: Rapid and specific high-pressure liquid chromatographic assay for folic acid in multivitamin-mineral pharmaceutical preparations
 AUTHOR(S): Tafolla, W. H.; Sarapu, A. C.; Dukes, G. R.
 CORPORATE SOURCE: Control Res. Dev. Lab., Upjohn Co., Kalamazoo, MI, 49001, USA
 SOURCE: J. Pharm. Sci. (1981), 70(11), 1273-6
 CODEN: JPMSAE; ISSN: 0022-3549
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A high-pressure liq. chromatog. assay for folic acid [59-30-3] in multivitamin-mineral pharmaceutical formulations was developed. The internal std. soln. used for sample extn. contained a chelating agent, pentetic acid, for prevention of metal ion-catalyzed degradn. of folic acid in the prep. samples. Samples were chromatographed using a paired-ion mobile phase (H₂O-MeOH, appr. 76:24; 0.015 M phosphate buffer, pH 7.0; and 0.3% tetrabutylammonium hydroxide on a column packed with octadecylsilane bonded to microparticulate silica gel; a UV detector was used at 280 nm. Sample prep. was rapid, and total chromatog. time was appr. 20 min. The method was accurate, precise, and highly specific. Folic acid and the internal std., methylparaben, were sepd. from other tablet components and a no. of potential impurities and degradn. products of folic acid.
 IT 59-30-3, analysis
 RL: ANT (Analyte); ANST (Analytical study) (detr. of, in multivitamin-mineral pharmaceuticals by high-pressure liq. chromatog.)
 RN 59-30-3 CAPLUS
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

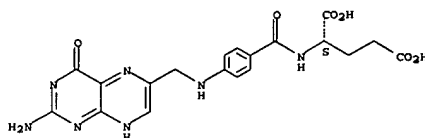


L24 ANSWER 68 OF 71 USPATFULL (Continued)



L24 ANSWER 70 OF 71 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:18400 CAPLUS
 DOCUMENT NUMBER: 86:18400
 TITLE: Potentiometric method for studying the complex formation of folic acid with nickel(II) and cobalt(II)
 AUTHOR(S): Mironov, E. A.; Nabokov, V. S.
 CORPORATE SOURCE: I Mosk. Med. Inst. im. Sechenova, Moscow, USSR
 SOURCE: Khim.-Farm. Zh. (1976), 10(6), 136-40
 CODEN: KHPZAN
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Potentiometric titrn. anal. showed that in folic acid [59-30-3] solns. Ni²⁺ and Co²⁺ form a stable bicyclic deprotonated chelate (I) with the coenzyme in addn. to the simple 1:1 and 1:2 (metal: ligand) complexes. Logarithms of the const. for complex formation between folic acid and Ni²⁺ or Co²⁺ are presented. Possible use of folic acid as a clin. chelating agent to decrease the toxicity of Ni²⁺ and Co²⁺ is discussed.
 IT 59-30-3, reactions
 RL: RCT (Reactant) (complexation of, with cobalt and nickel, metal toxicity in relation to)
 RN 59-30-3 CAPLUS
 CN L-Glutamic acid, N-[4-[[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 71 OF 71 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1973:52827 CAPLUS

DOCUMENT NUMBER: 78:52827

TITLE: Effects of ethylenediaminetetraacetate and diethylenetriaminepentaacetate of DNA. Synthesis in kidney and intestinal mucosa of folate treated rats

AUTHOR(S): Taylor, David M.; Jones, Julie D.

CORPORATE SOURCE: Biophys. Div., Inst. Cancer Res.,

Belmont/Sutton/Surrey, Engl.

SOURCE: Biochem. Pharmacol. (1972), 21(24), 3313-15

CODEN: BCPCA6

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Folate stimulation of DNA synthesis in the rat kidney was markedly depressed by calcium disodium EDTA [62-33-9] and by calcium trisodium diethylenetriaminepentaacetate (CaNa3DTPA) [12111-24-9] and manganese trisodium diethylenetriaminepentaacetate [11065-74-0], but not by zinc disodium EDTA [14025-21-9] or zinc trisodium diethylenetriaminepentaacetate [11082-38-5]. In the intestinal mucosa, only CaNa3DTPA decreased folate-stimulated DNA synthesis. That the Zn salts had little effect on DNA synthesis in the kidney or intestinal mucosa suggested that they may be more suitable for prolonged administration for treatment of certain types of metal and radioelement poisoning in man than the Ca salts.

IT 59-30-3, biological studies

RL: BIOL (Biological study)

(DNA formation stimulation by, in kidney and intestine, chelating agents effect on)

RN 59-30-3 CAPLUS

CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

